

# General Architecture

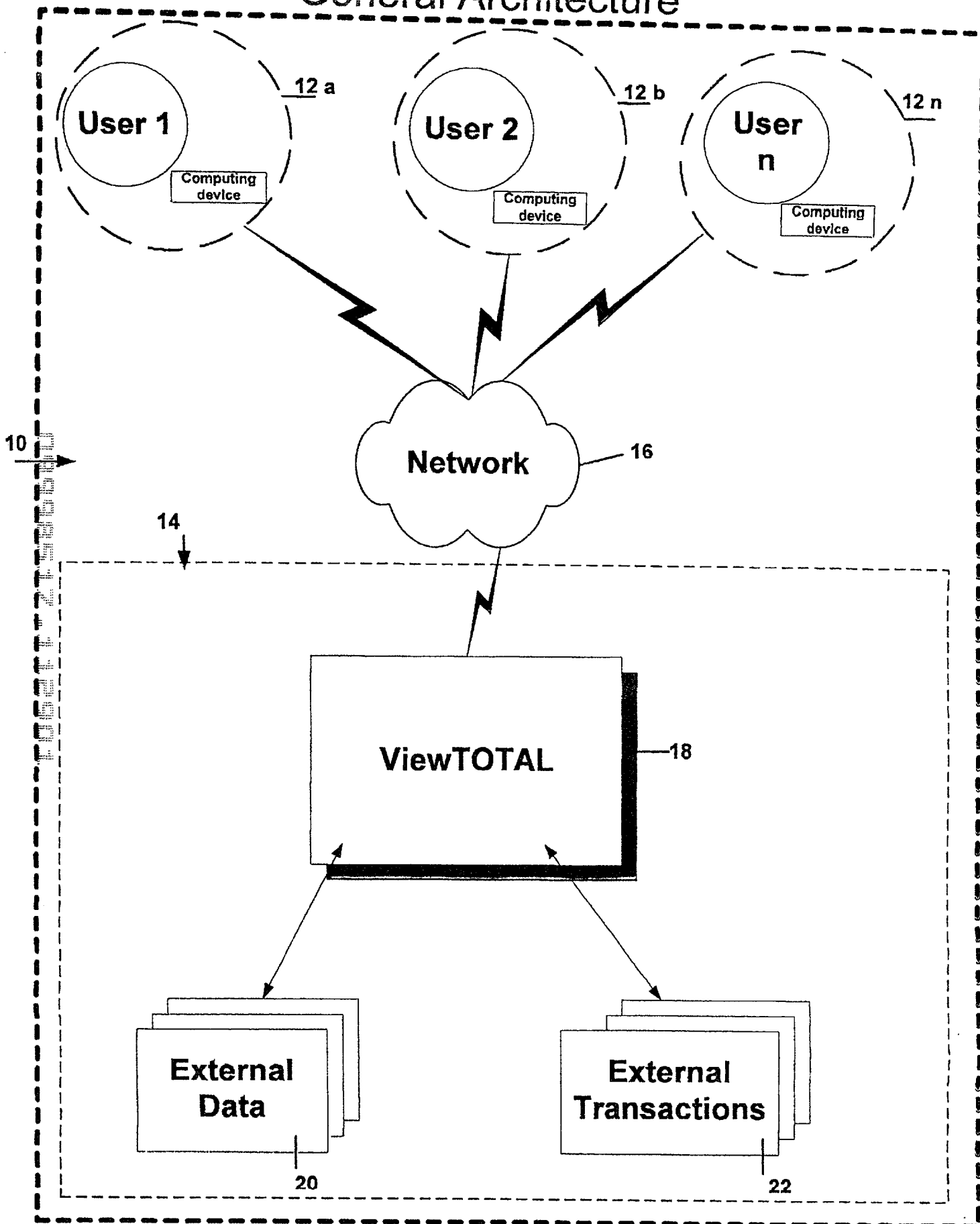


FIG. 1

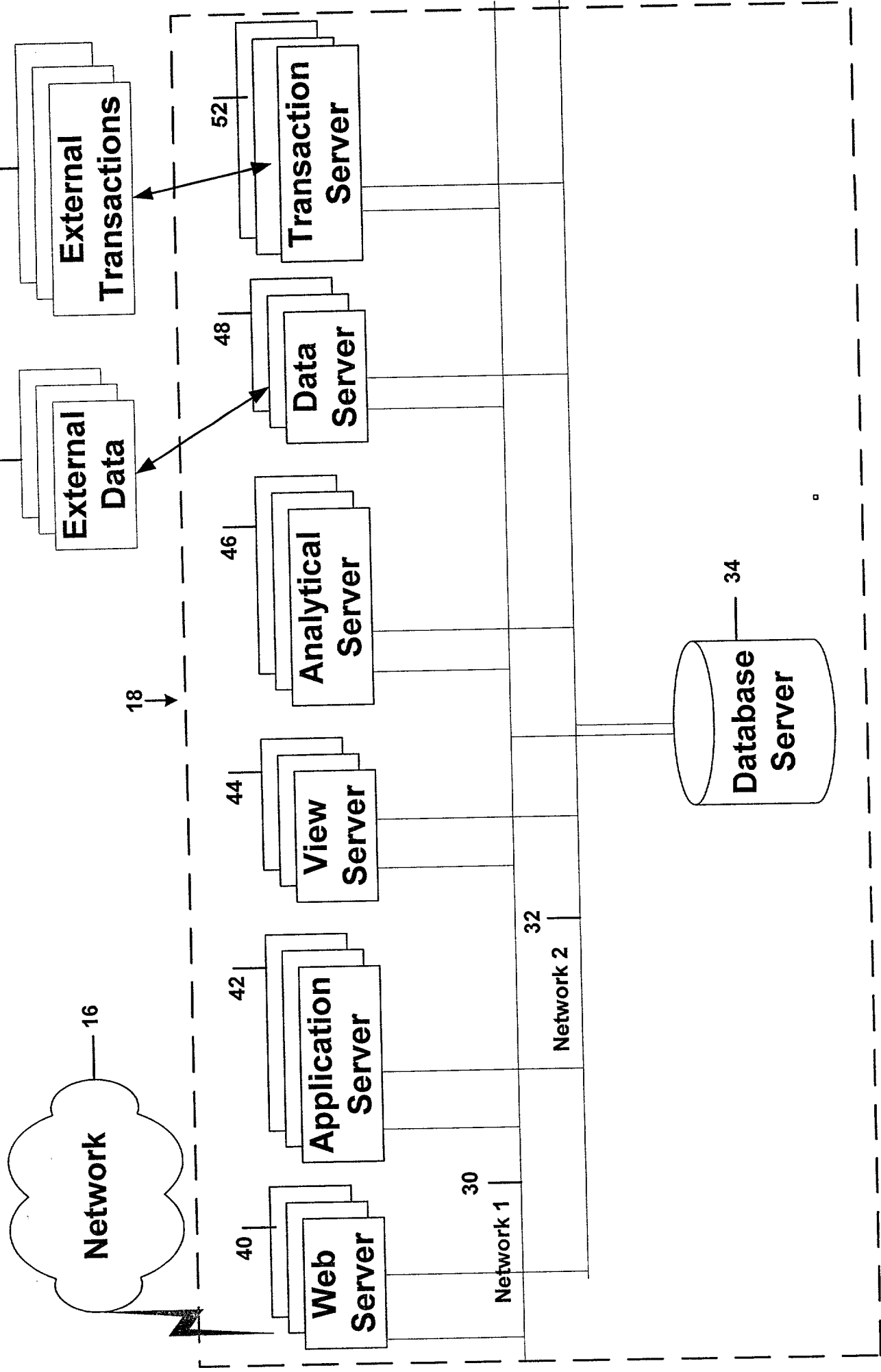


FIG. 2

800 →

Portfolio Trades Markets Trade VS Logout

Account Trader Fund

Account Equities3 Go

60

Views: Fundamentals - ProfitLoss - Risk - By Instrument - By LongShort - By Industry - By AssetClass - By Greeks - By Counterparty

62a

62b

62m

Portfolio Analysis (By Instrument) Account Equities3 As Of 11/06/2000 Copyright 2000 Unilogic, Inc.

Instrument	PriorClose	Last	Bid	Ask	Open	%Change	NetChange	Price	Short	Long	Position	ShortPosV
AAPL	22.2500	21.4375	21.1875	21.4375	22.4375	-3.65	0.8125	21.44	0.00	0.00	0.00	
IBM	100.1250	100.3125	0.0000	0.0000	99.8750	0.19	0.1875	100.31	0.00	0.00	0.00	
Total												

63

72

Lock \* - 62x

Fig. 3

0959517 " 112904

[Portfolio](#)
[Trades](#)
[Markets](#)
[Trade](#)
[Logout](#)

Views: [Indices](#) -

[Override](#)

Portfolio Analysis Instrument Override Account Equities3 As Of 11/06/2000 Copyright 2000 Unilogic, Inc.

Instrument	Description	Bid	Ask	Last	LocalPrice
					Override
AAPL	Apple Computer	21.1875	21.3125	21.4375	25.0000
IBM	IBM	0.0000	0.0000	100.3125	...

77

76

78

74

Fig. 4

FIG. 4

# Before Failover

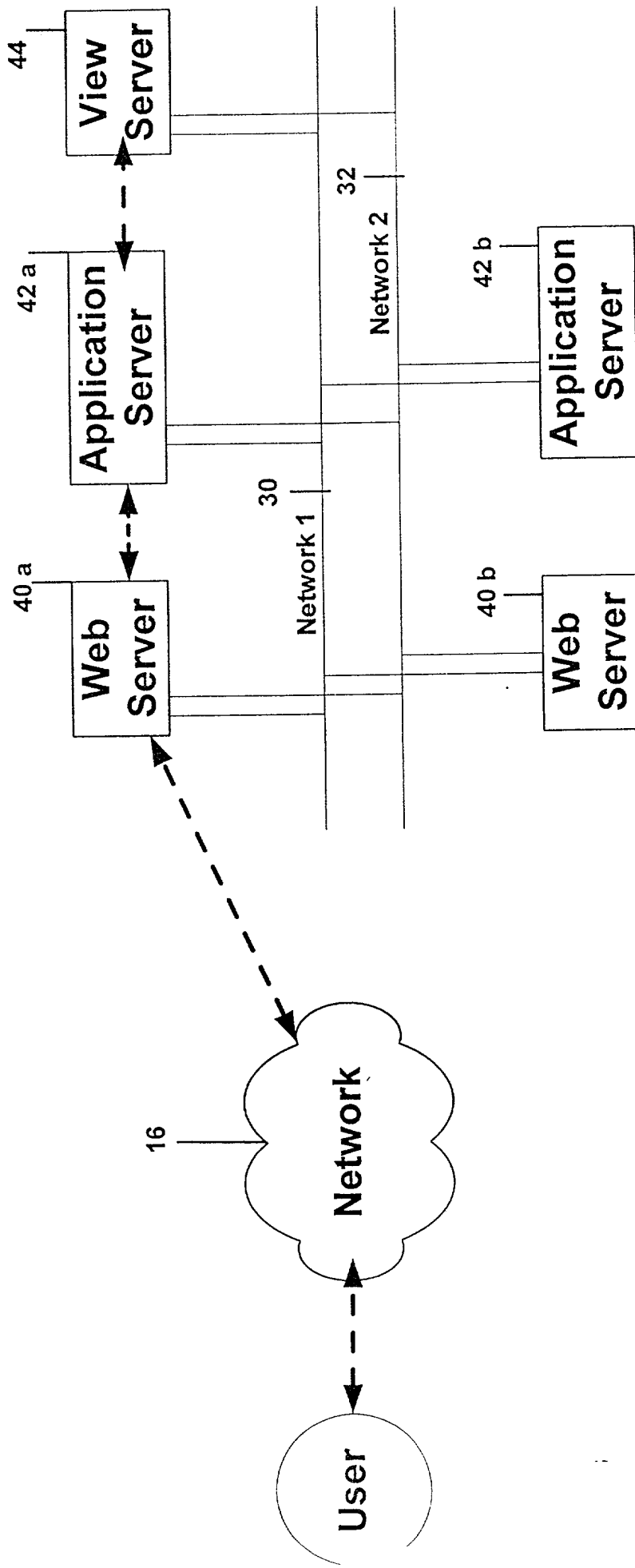


FIG. 5A

# After Failover

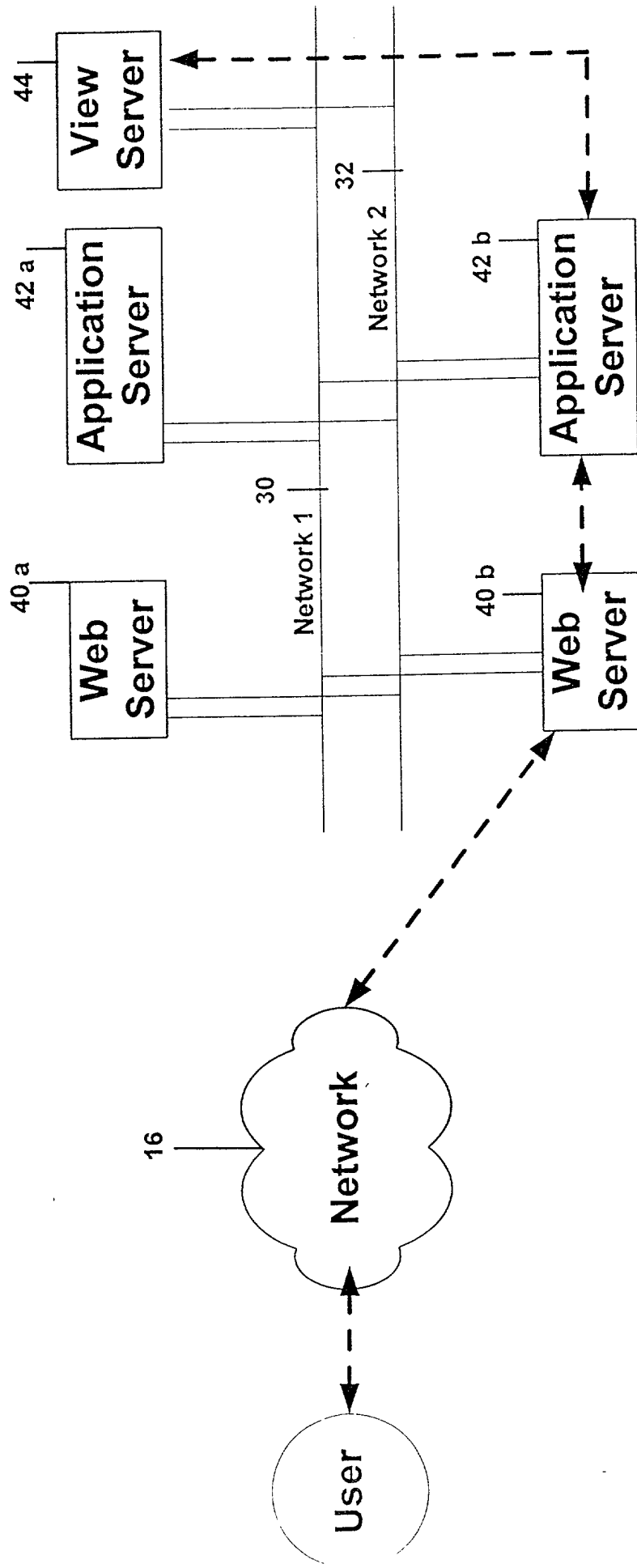


FIG. 5B

# User application view

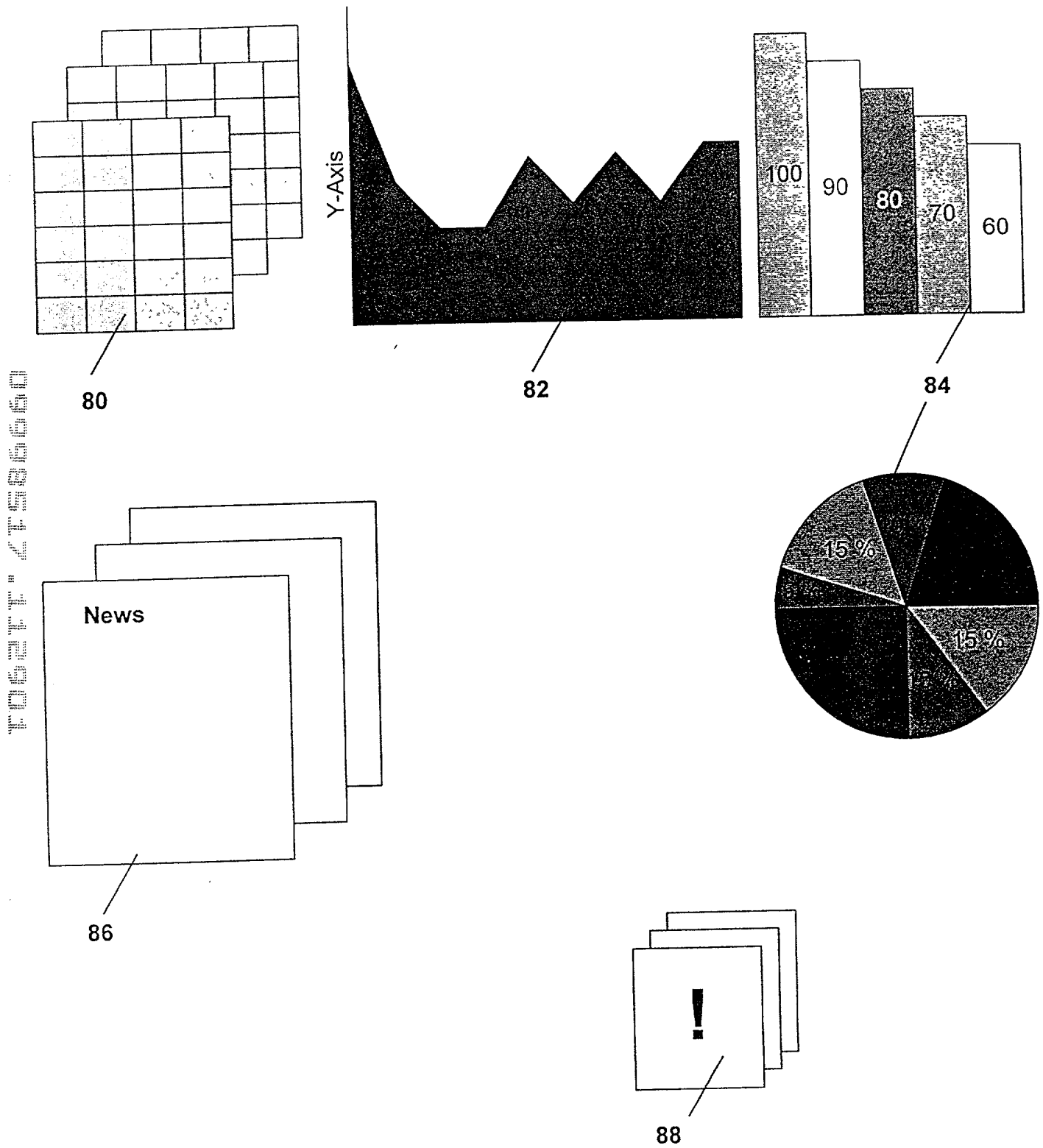


FIG. 6

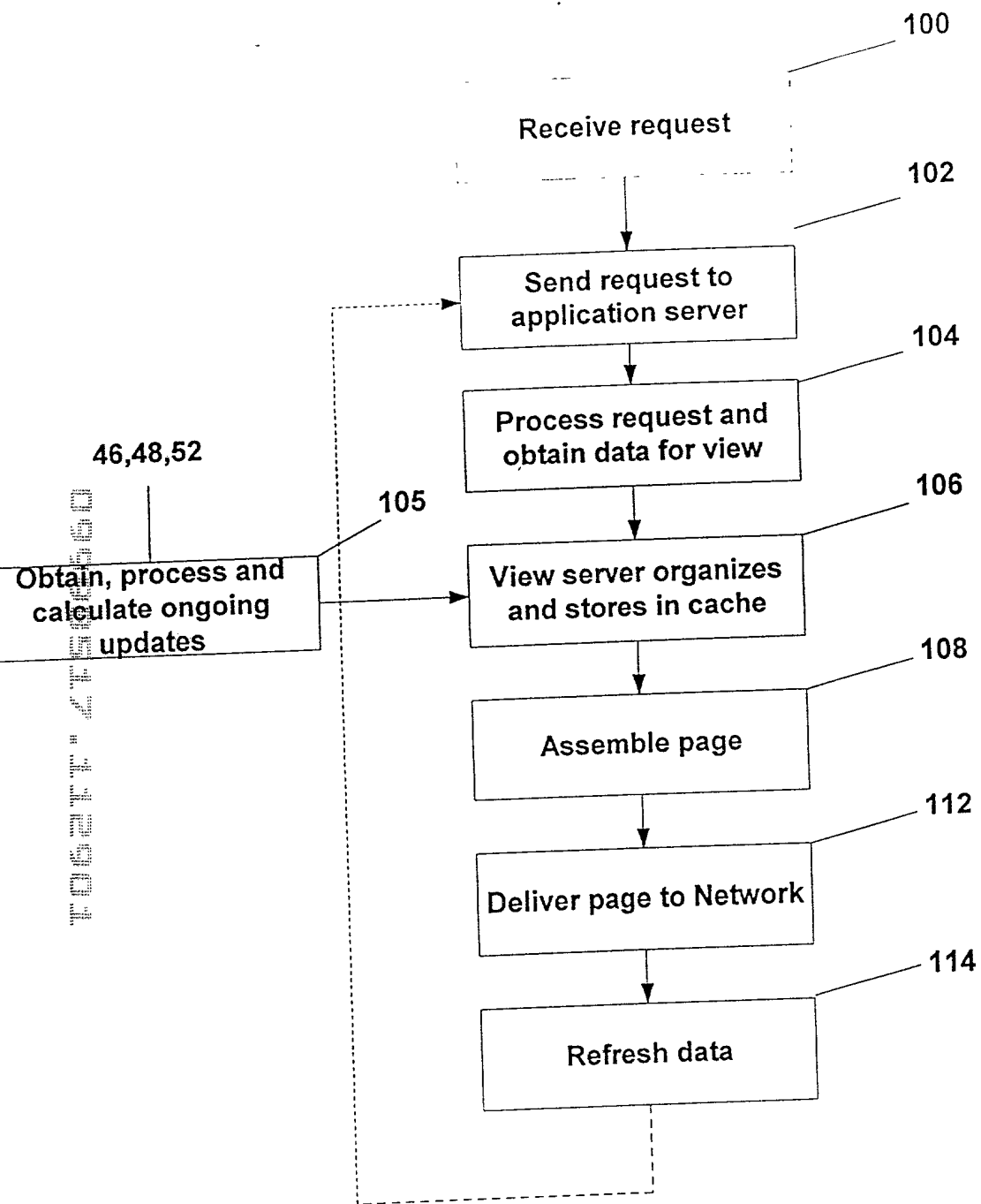
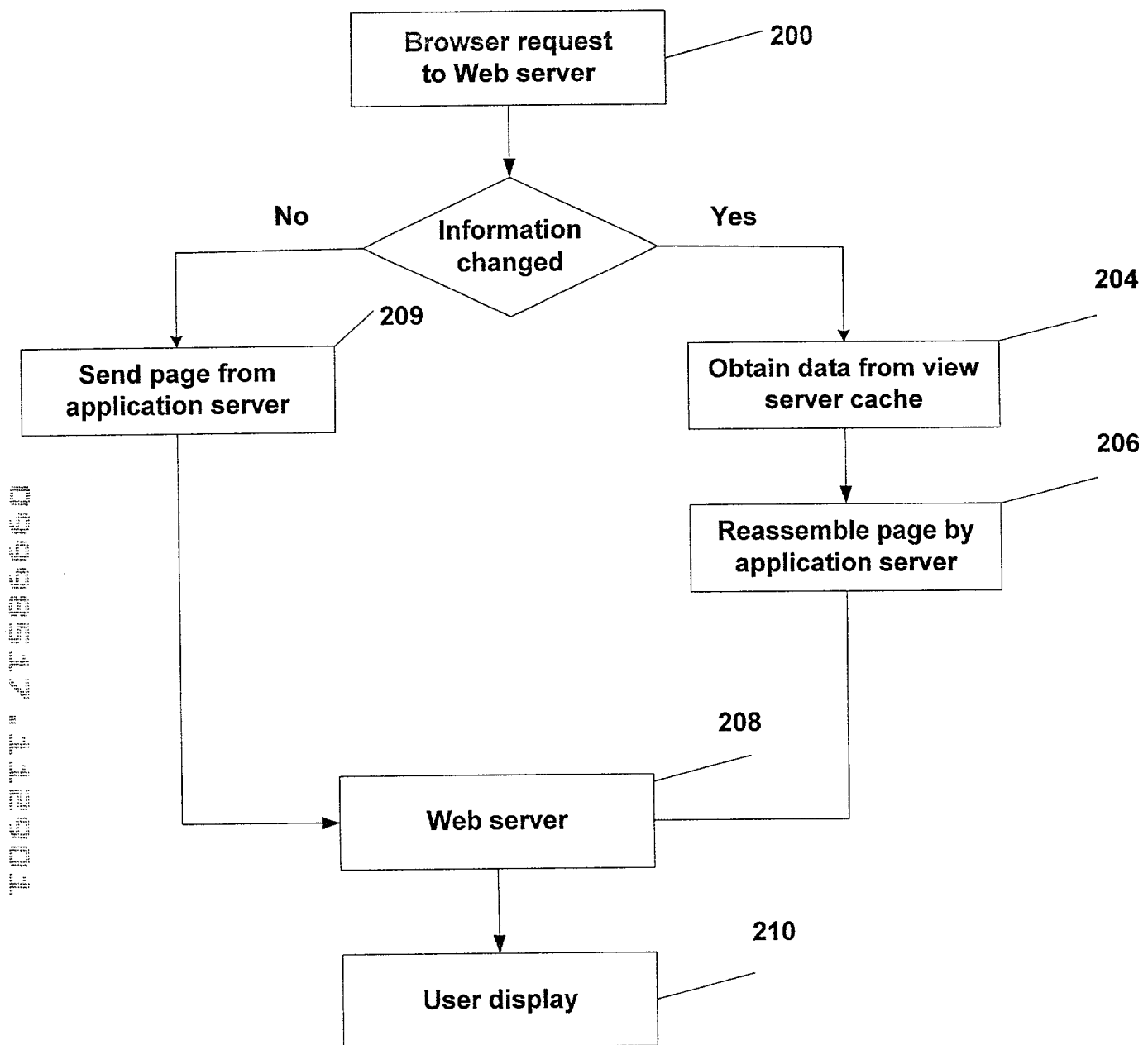


FIG. 7





**FIG. 8**

Trade Blotter

Account Trader Fund

Account Equities1 Go

Views: Blotter - Daily Blotter - Expiration

Trade Blotter Account Equities1 As Of 11/29/2000 Copyright 2000 Unilogic, Inc.

To modify or cancel a trade please click on arrow near TradeID

TradeID	SecurityName	Description	TradeType	TradeStatus	TradeDividend	TradeQuantity	TradePrice	SecurityType	Counterparty	TradeDate	Maturity
2641	IBM	IBM	Buy	Open	0.00	1000.00	99.000	CommonStock	BankOfAmerica	11/06/2000	
Total											

Fig. 8A

Trade Blotter Account Equities1 As Of 11/29/2000 Copyright 2000 Unilogic, Inc.

Account Trader Fund

Account Equities1 Go

Views: Blotter - DailyBlotter - Expiration

Trade Blotter Account Equities1 As Of 11/29/2000 Copyright 2000 Unilogic, Inc.

802 Modify Trade Cancel Trade 803

TradeID	SecurityName	Description	TradeType	TradeStatus	TradeDividend	TradeQuantity	TradePrice	SecurityType	Counterparty	TradeDate	Maturity
2641	IBM	IBM	Buy	Open	0.00	1000.00	99.000	CommonStock	BankOfAmerica	11/06/2000	
Total											

Fig. 8B

Portfolio

Trade's

Markets

Trace Entry

Logout

Are you sure to Modify trade 2641 ?

YES | NO |

Fig. 9

[illegible]

Portfolio

Trades

Markets

Entry

Logout

Choose Security Type

Equity Trade Entry

☒ Buy ☐ Sell ☐ Sell Short ☐ Buy To Cover

Account	<input type="text" value="Equities1"/>
Amount	<input type="text" value="1000.00"/>
Equity	<input type="text" value="IBM"/>
Trade Price	<input type="text" value="99.0000"/>
Counterparty	<input type="text" value="BankOfAmerica"/>
Commission	<input type="text" value="50.00"/>
Trade Date	<input type="text" value="11/06/2000"/>
Hedge	<input type="checkbox"/>
Trade ID	<input type="text" value="2641"/>
	<input type="button" value="submit"/>

Fig. 10

2025-11-06 10:00:00

[Portfolio](#)
[Trade](#)
[Markets](#)
[Trade Entry](#)
[Logout](#)

Account Trader Fund

Account

Views: [Fundamentals](#) - [ProfitLoss](#) - [Risk](#) - [By Allocation](#) - [By AssetClass](#) - [By Counterparty](#) - [By Country](#) - [By Currency](#) - [By Industry](#) - [By Instrument](#) - [By LongShort](#) } 100

Portfolio Analysis (By Country) Account Currencies1 As Of 11/26/2000 Copyright 2000 Unilogic, Inc.

Country	Spot	ShortPosValue	LongPosValue	PosValue	UnrealizedP/L	RealizedP/L
					OTD	OTD
USA	1.0000	0.00	29,700.00	29,700.00	-1,300.00	0.00
Japan	112.0000	0.00	32,428.57	32,428.57	-4,911.43	0.00
Total		0.00	62,128.57	62,128.57	-6,211.43	0.00

Fig 11

09998517 "11291"

[Portfolio](#)
[Trades](#)
[Markets](#)
[Trade Entry](#)
[Logout](#)

Detail Portfolio Analysis (By Country-Japan) Account Currencies1 As Of 11/26/2000 Copyright 2000  
 Unilogic, Inc.

Instrument	Local	Currency	Maturity	Position	PosValue	UnrealizedP/L	RealizedP/L
	Price					OTD	OTD
EWJ	11.75	USD		2,000.00	23,500.00	-4,750.00	0.00
Japanese_Yen	112.00	Japanese_Yen		1,000,000.00	8,928.57	-161.43	0.00
Totals					32,428.57	-4,911.43	0.00

[Refresh Detail](#)
[Back To Aggregate View](#)

0998547-42904

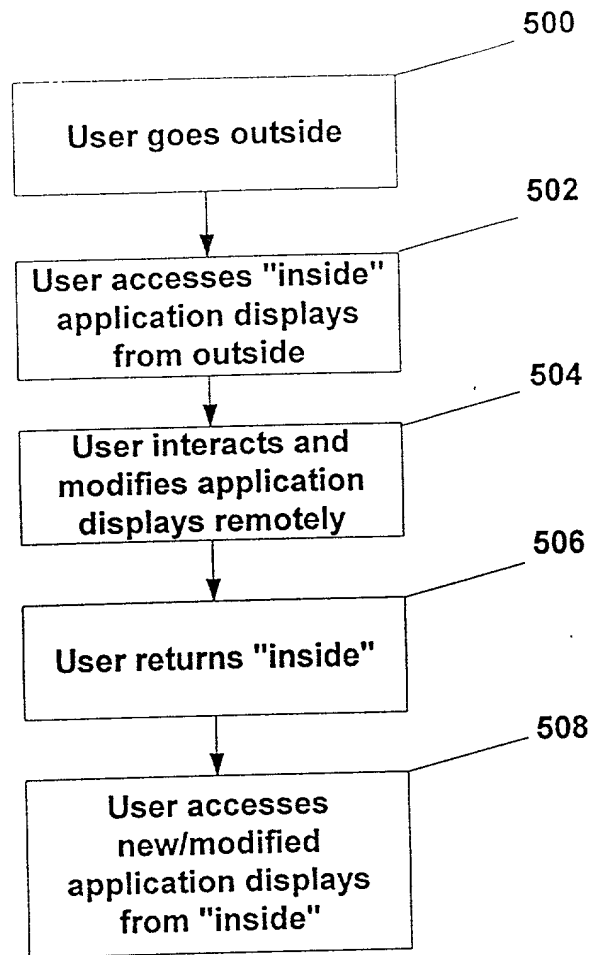


FIG. 13



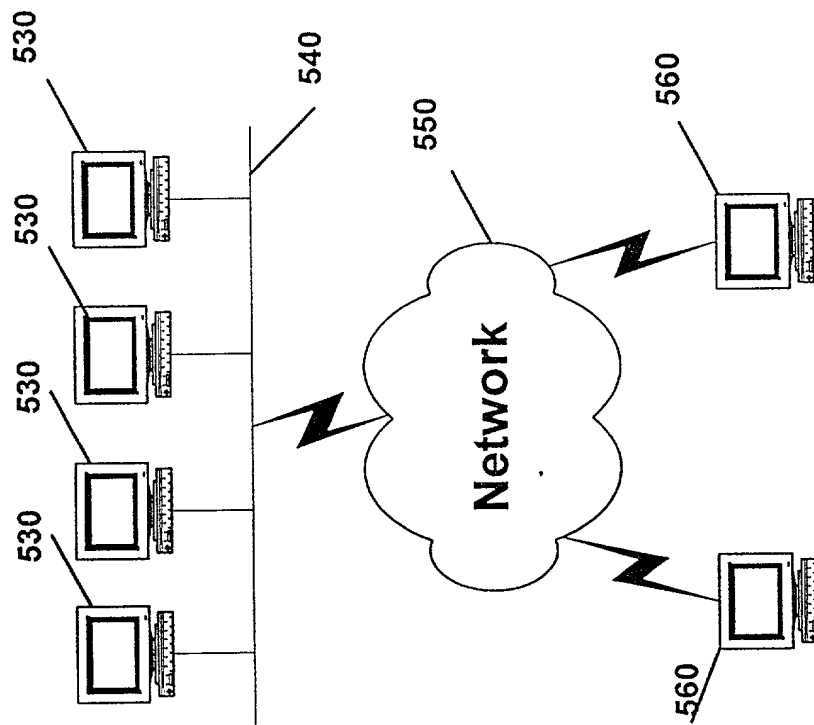


FIG. 14

- Portfolio
- Trades
- Curves
- Logout
- Markets
- Trade Entry
- Configure

Account Trader Fund

Account Currencies1

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country - By Currency - By Industry - By Instrument - By LongShort - By Greeks

600


Portfolio Analysis (By AssetClass) Account Currencies1 As Of 05/22/2001

AssetClass	ShortPosValue	LongPosValue	PosValue	%PosValue	UnrealizedP/L	RealizedP/L
					OTD	OTD
Currencies	-884,642.60	0.00	-884,642.60	25.53	-44,642.60	0.00
Options	0.00	55,000.00	55,000.00	1.59	29,000.00	0.00
Equities	-490,350.00	2,082,630.00	1,592,280.00	72.89	1,179,175.00	0.00
Total	-1,374,992.60	2,137,630.00	762,637.40	100.00	1,163,532.40	0.00

Fig. 15

- Portfolio
- Trades
- Quotes
- Logout
- Markets
- Trade Entry
- Configure

Account Trader Fund

Account Currencies1 

Views: Fundamentals - Profit/Loss - Risk - By Allocation - By Asset Class - By Counterparty - By Country - By Currency - By Industry - By Instrument - By Long/Short - By Greeks

600 602 Portfolio Analysis (By Asset Class) Account Currencies1 As Of 05/22/2001

Asset Class	Short Pos Value	Long Pos Value	Pos Value	% Pos Value	Unrealized P/L	Realized P/L
					OTD	OTD
Currencies	-884,779.58	0.00	-884,779.58	25.53	-44,779.58	0.00
Options	0.00	55,000.00	55,000.00	1.59	29,000.00	0.00
Equities	-490,350.00	2,082,630.00	1,592,280.00	72.88	1,179,175.00	0.00
Total	-1,375,129.58	2,137,630.00	762,500.42	100.00	1,163,395.42	0.00

Fig. 16

Portfolio

Trades

Curves

Markets

Trade Entry

Configure

Logout

Account Trader Fund

Account ☐ Currencies1 ☒ Go

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country - By Currency - By Industry - By Instrument - By LongShort

630 - By Greeks 632 640

Portfolio Analysis (By AssetClass) Account Currencies1 As Of 05/22/2001

AssetClass	ShortPosValue	LongPosValue	PosValue	%PosValue	UnrealizedP/L	RealizedP/L
					OTD	OTD
Currencies	-884,897.02	0.00	-884,897.02	25.53	-44,897.02	0.00
Options	0.00	55,000.00	55,000.00	1.59	29,000.00	0.00
Equities	-490,350.00	2,082,630.00	1,592,280.00	72.88	1,179,175.00	0.00
Total	-1,375,247.02	2,137,630.00	762,382.98	100.00	1,163,277.98	0.00

↑ Selected Column

FIG. 17

- Portfolio
- Trades
- Executes
- Markets
- Trade Entry
- Configure
- Logout

Account Trader Fund

Account Currencies1 ☒ Go

Views: Fundamentals - Profit/Loss - Risk - By Allocation - By Asset Class - By Counterparty - By Country - By Currency - By Industry - By Instrument - By Long/Short

600 Portfolio Analysis (By Asset Class) Account Currencies1 As Of 05/22/2001

By Greeks 620 650

Asset Class	Long Pos Value	Pos Value	Short Pos Value	% Pos Value	Unrealized P/L	Realized P/L
					OTD	OTD
Currencies	0.00	-884,779.58	-884,779.58	25.53	-44,779.58	0.00
Options	55,000.00	55,000.00	0.00	1.59	29,000.00	0.00
Equities	2,082,630.00	1,592,280.00	-490,350.00	72.88	1,179,175.00	0.00
Total	2,137,630.00	762,500.42	-1,375,129.58	100.00	1,163,395.42	0.00

↑ selected column

Fig. 18

Portfolio

Markets

Curves

Logout

Configure

Trade Entry

Markets

Curves

Logout

Account Trader Fund

Account Currencies1 ☒ Go

Views: Fundamentals - ProfitLoss - Risk - By Allocation - By AssetClass - By Counterparty - By Country - By Currency - By Industry - By Instrument - By LongShort - By Greeks

Portfolio Analysis (By AssetClass) Account Currencies1 As Of 05/22/2001

AssetClass	LongPosValue	PosValue	ShortPosValue	%PosValue	UnrealizedP/L	RealizedP/L
Currencies	0.00	-885,249.53	-885,249.53	25.54	-45,249.53	0.00
Options	55,000.00	55,000.00	0.00	1.59	29,000.00	0.00
Equities	2,082,630.00	1,592,280.00	-490,350.00	72.87	1,179,175.00	0.00
Total	2,137,630.00	762,030.47	-1,375,599.53	100.00	1,162,925.47	0.00

Chart Type: Bar - HorizontalBar - Pie

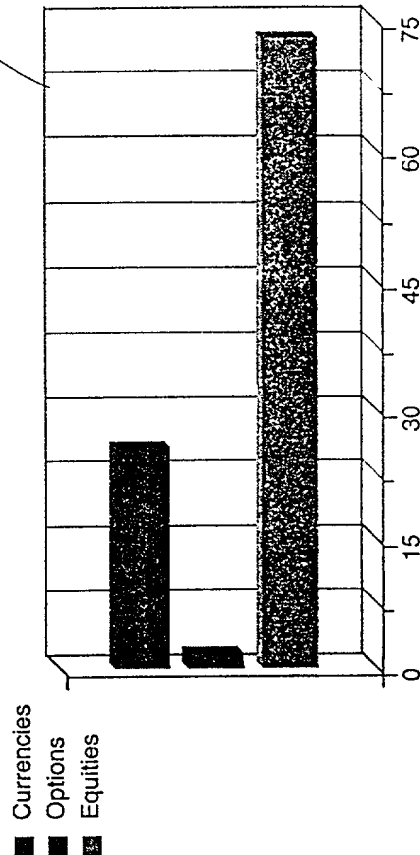


Fig. 19

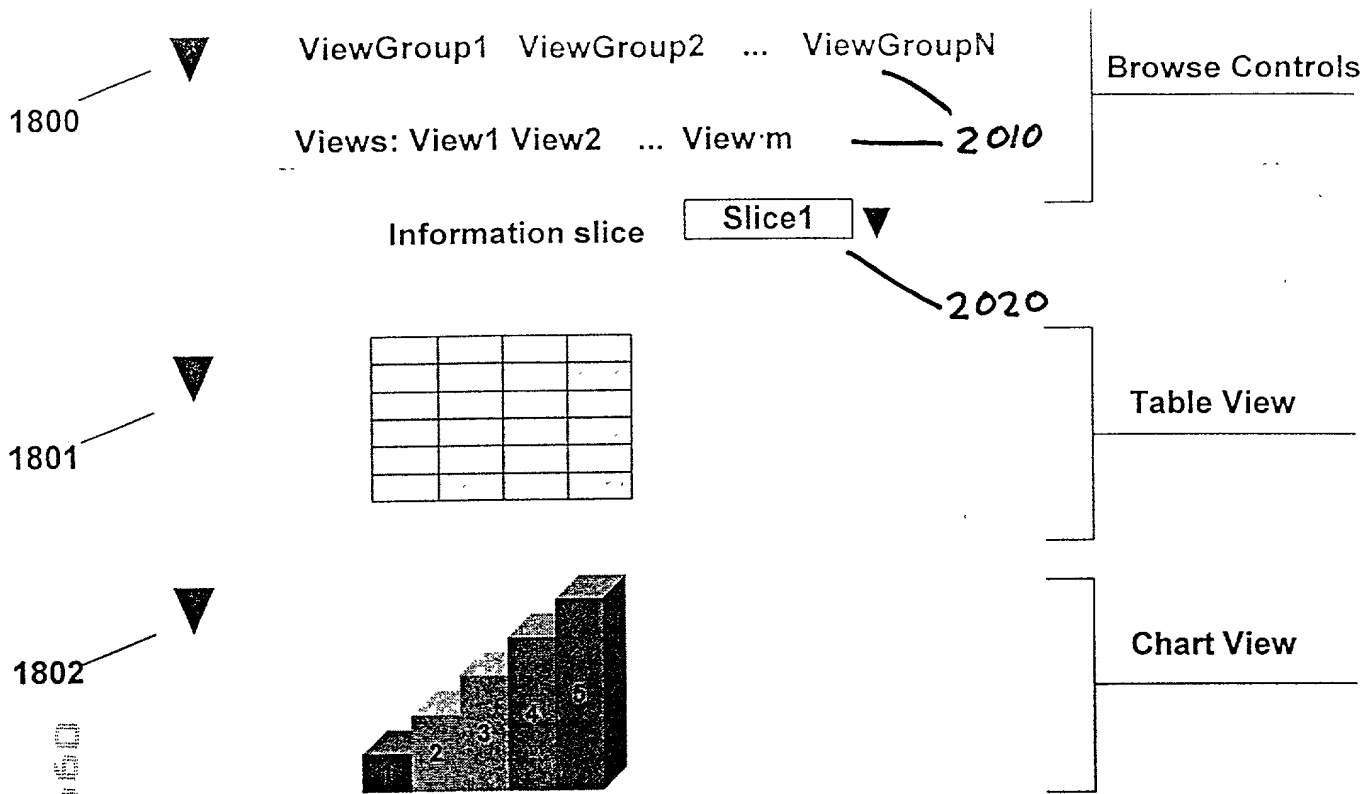


FIG. 20a

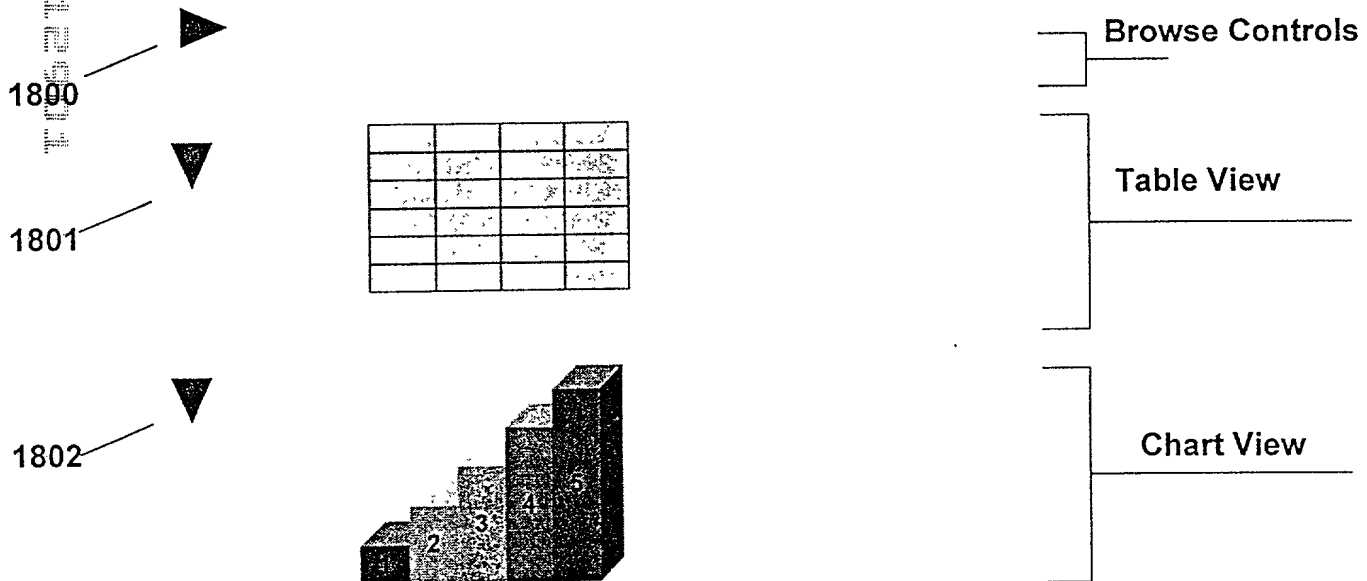


FIG. 20b

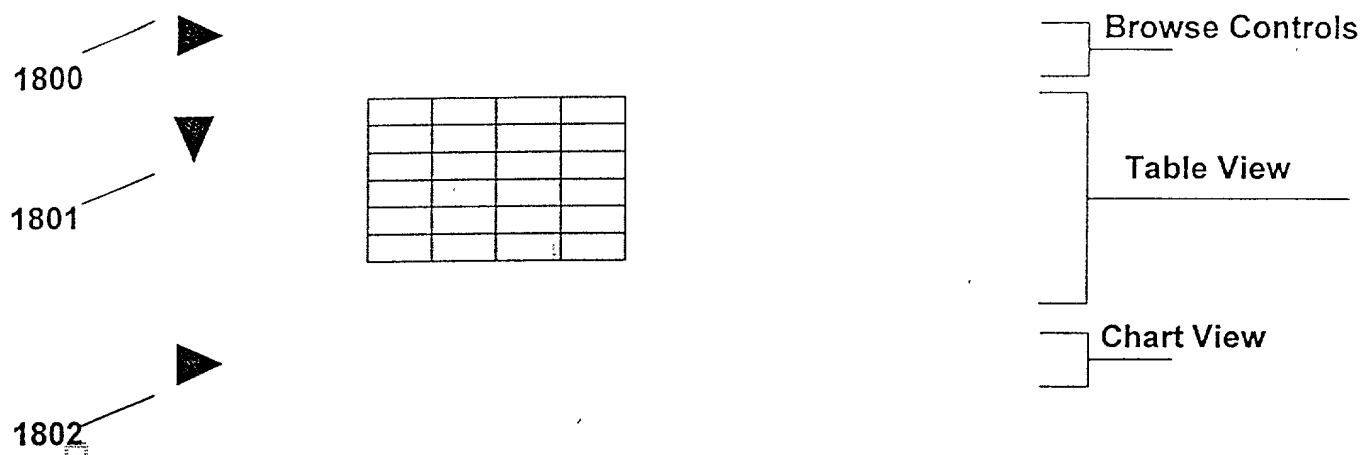


FIG. 20c

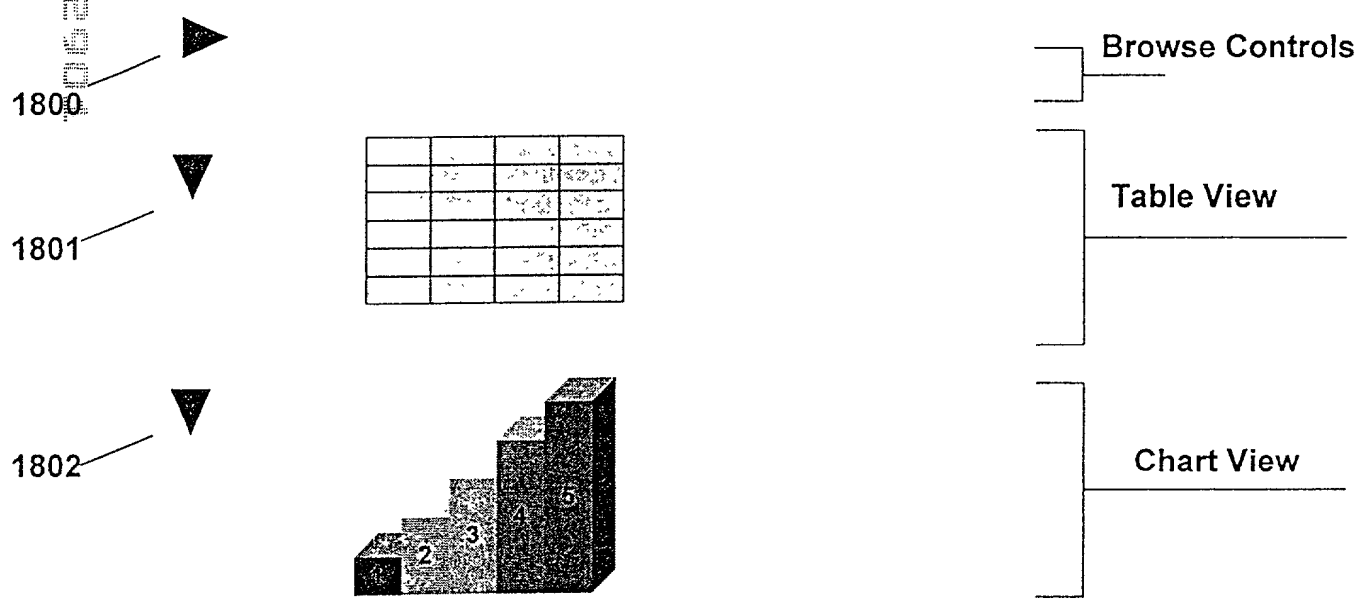


FIG. 20d



# HTML Based Application

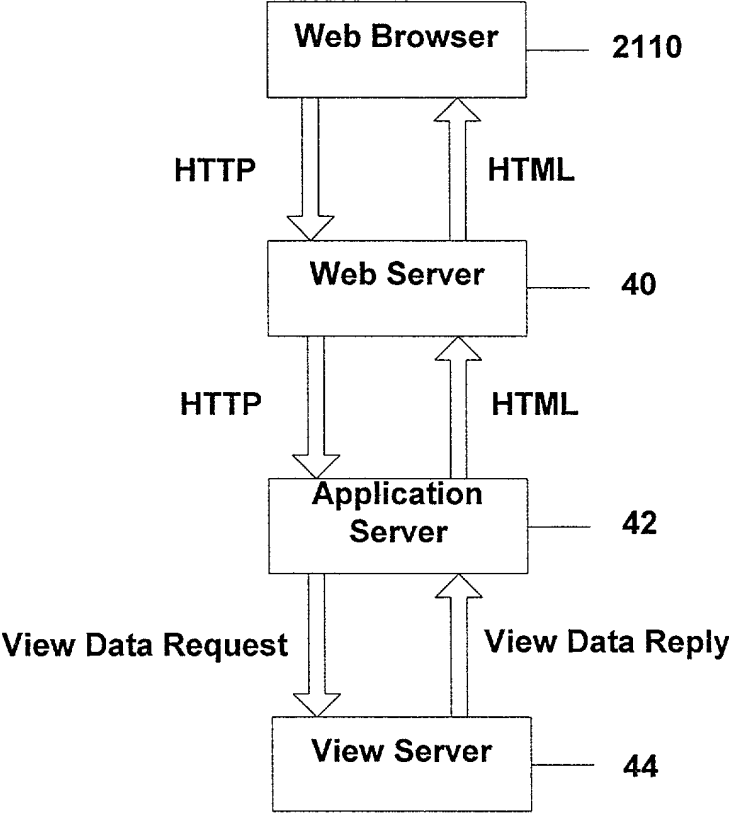


FIG. 21

# Browser Based Client (Java, C#,...) Application

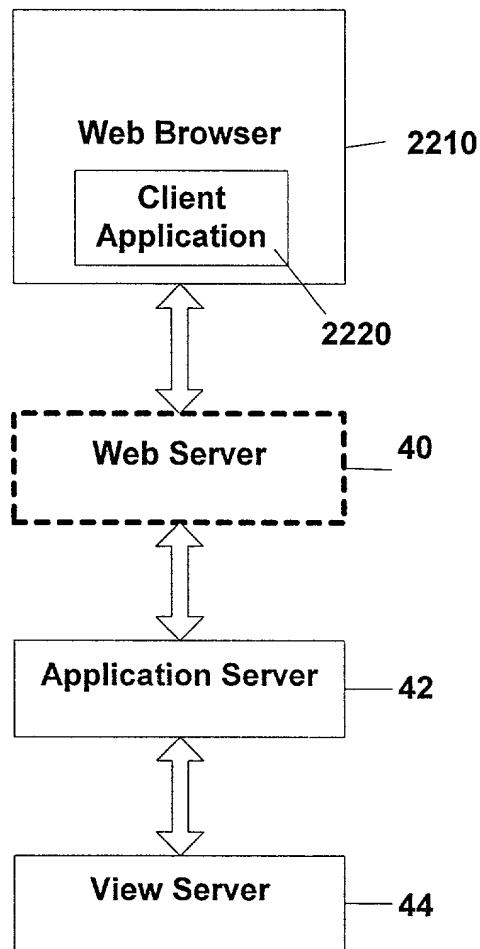


FIG. 22

# Local Client (Java, C#, C++,...) Application

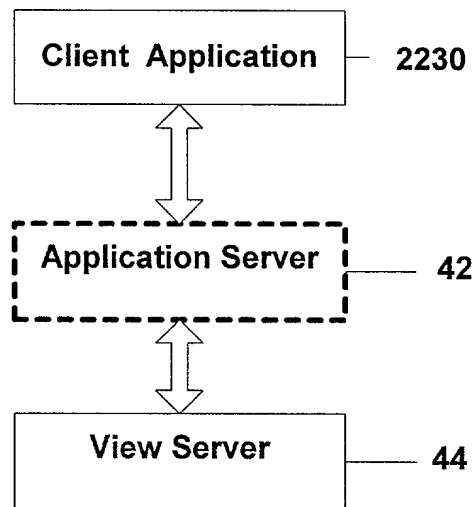


FIG. 22A

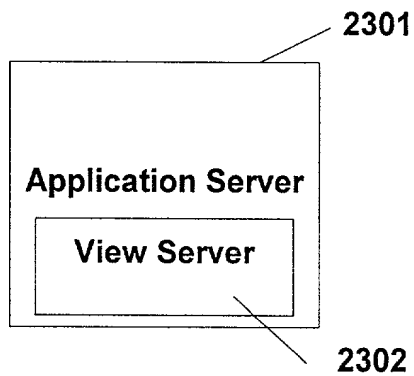


FIG. 23A

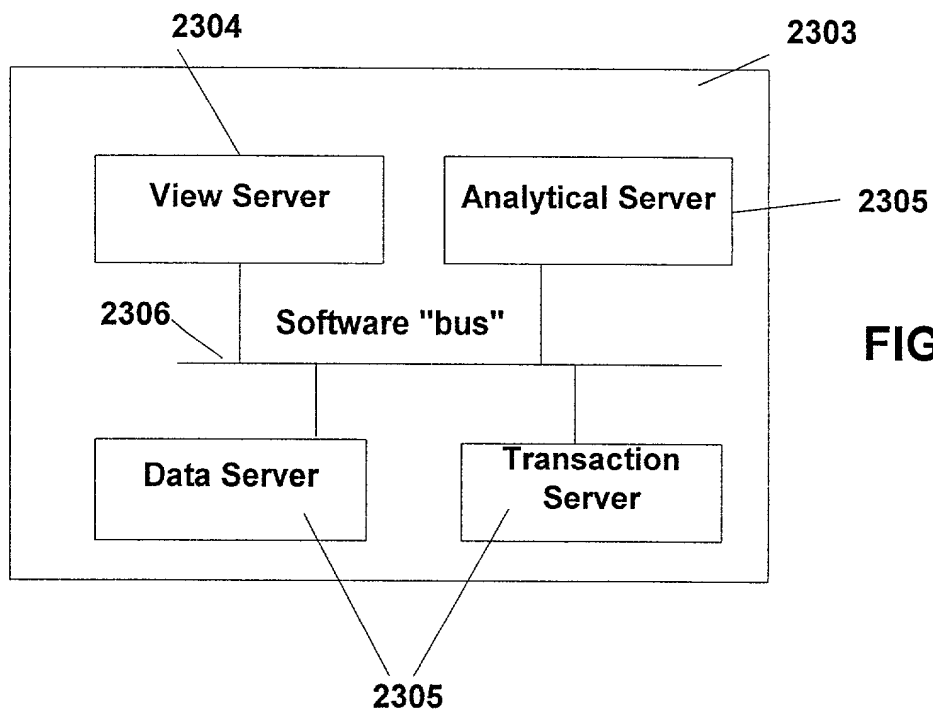


FIG. 23B

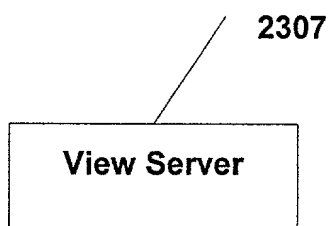


FIG. 23C

# HTML based shared application service

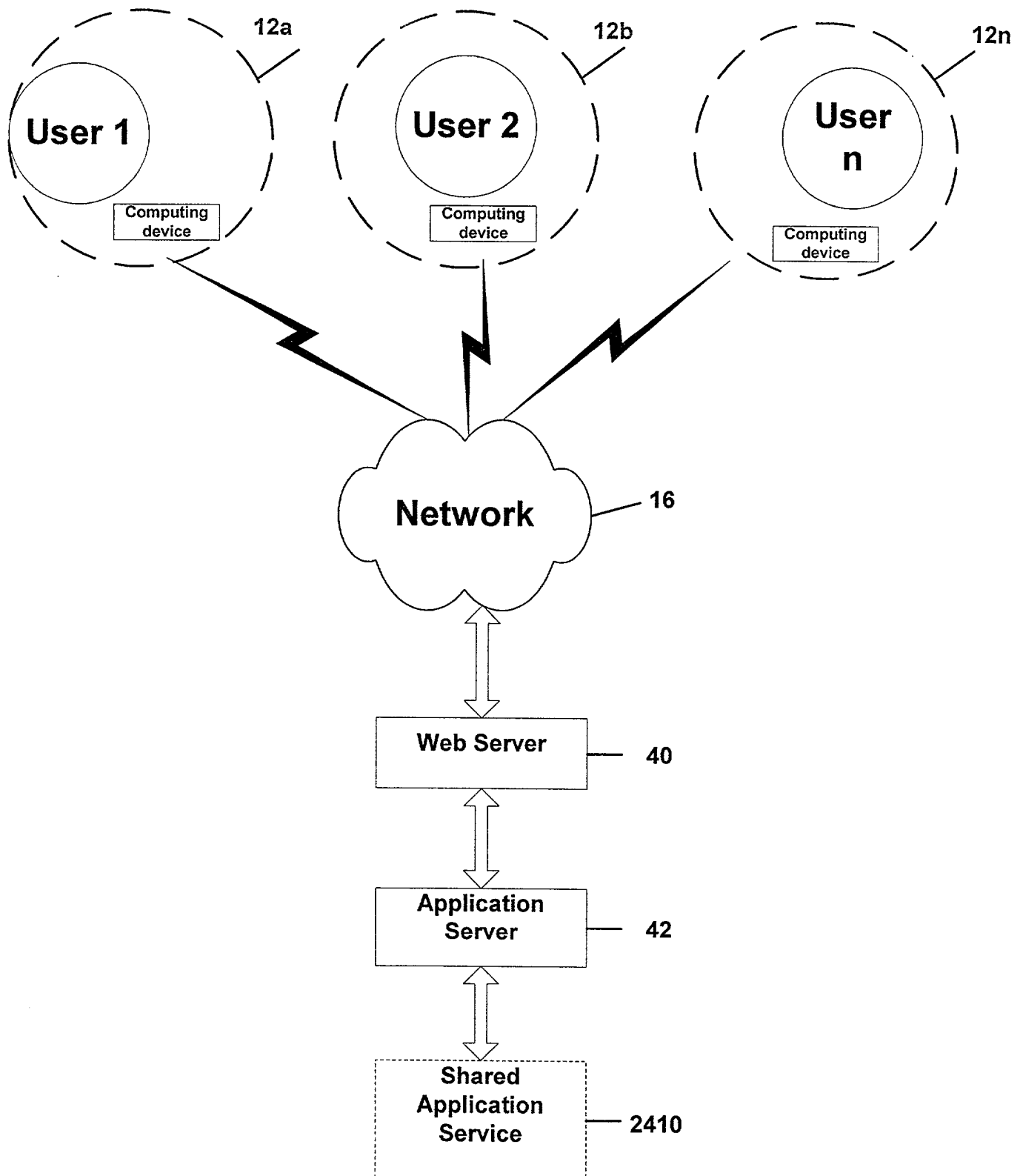


FIG. 24A

Browser based client  
(Java,C#, ...) using shared  
application service

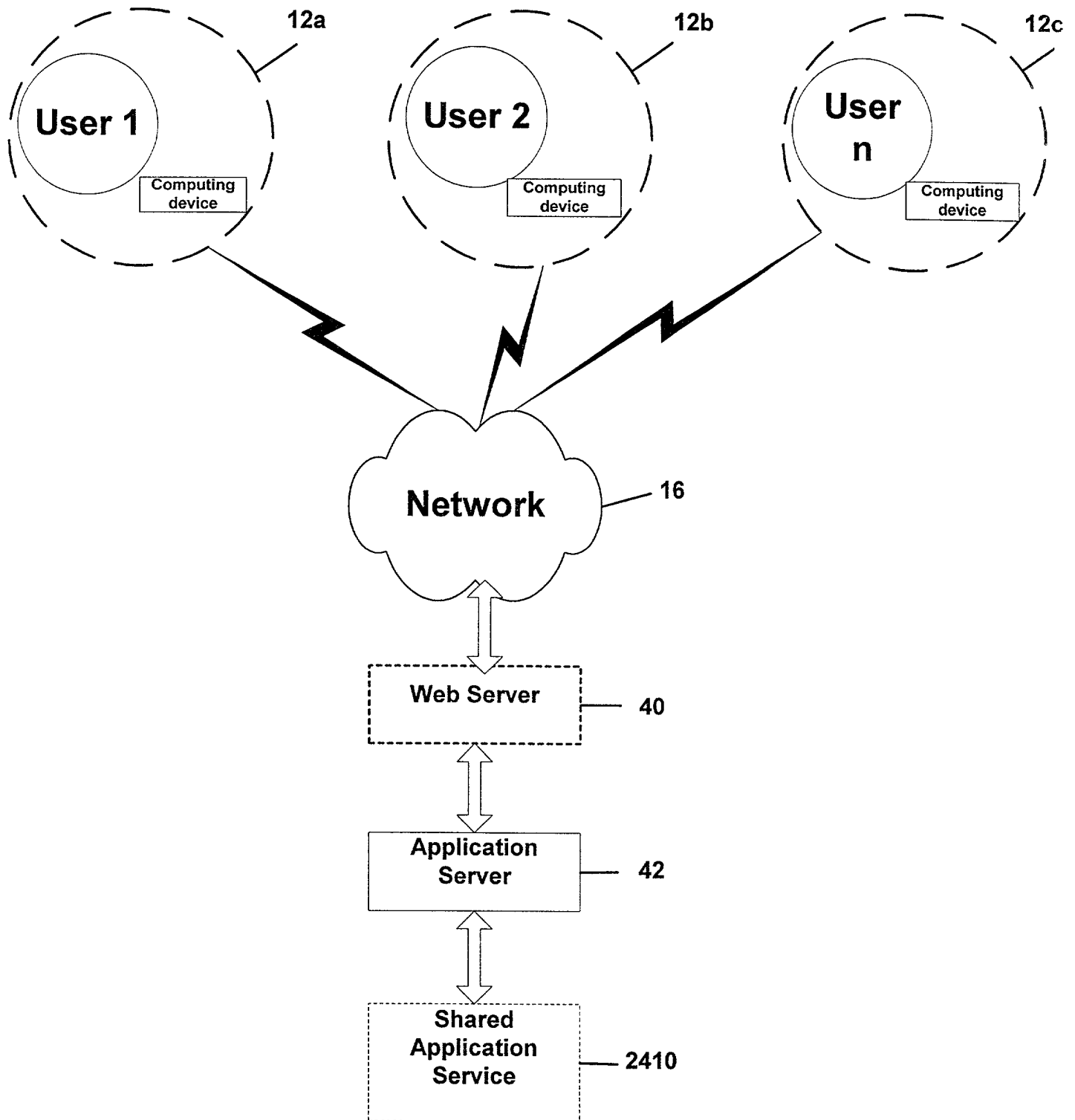


FIG. 24B

Local client (Java, C#, C++,...)  
using shared application  
service

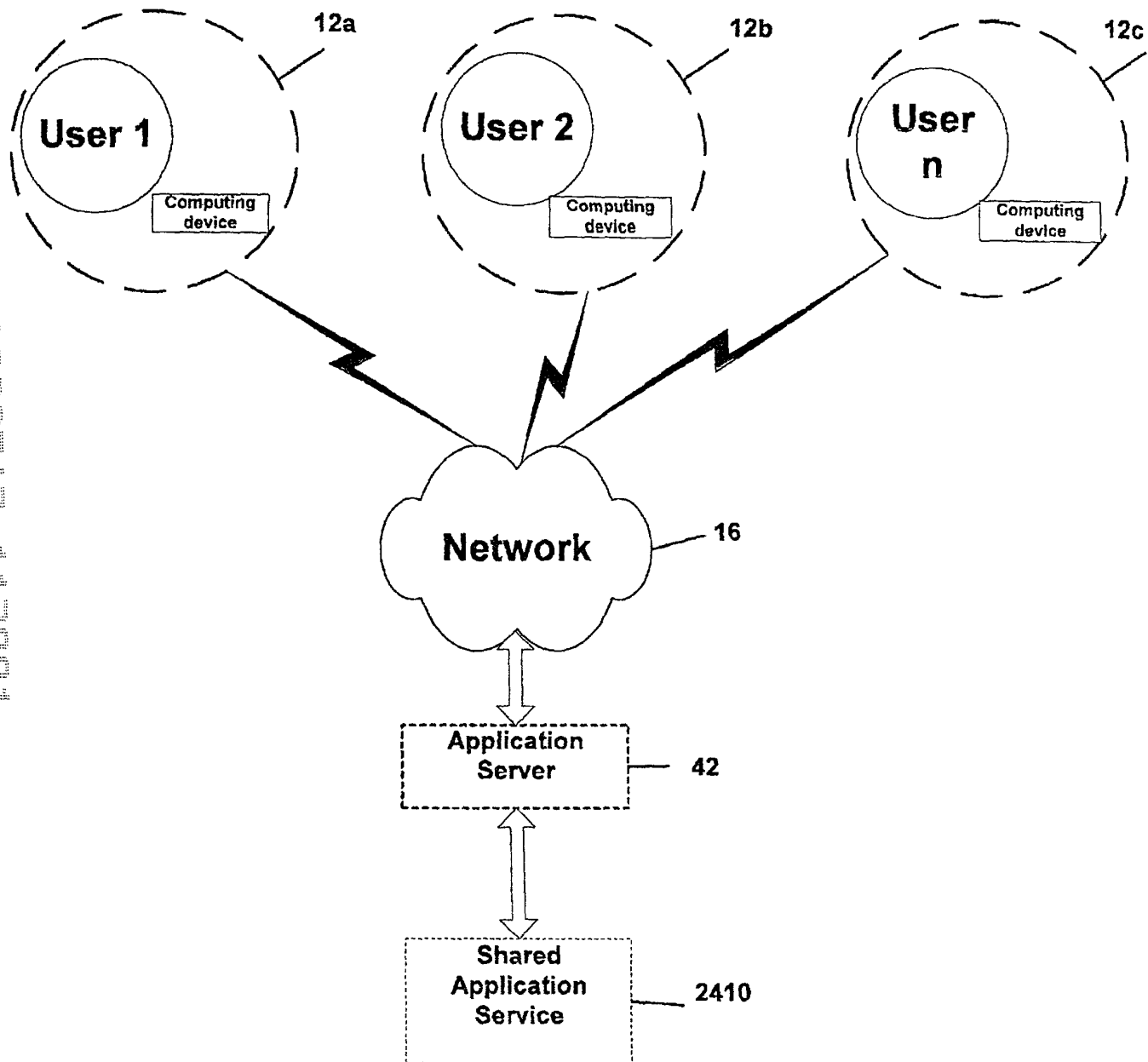


FIG. 24C

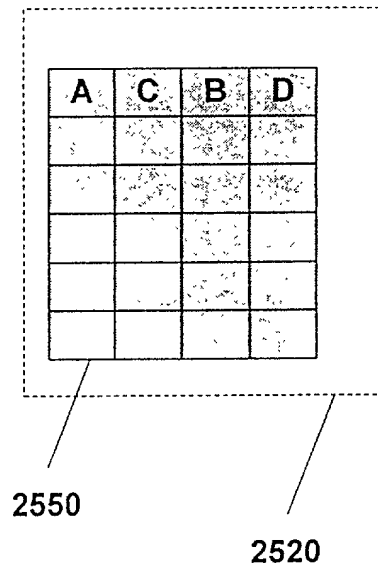
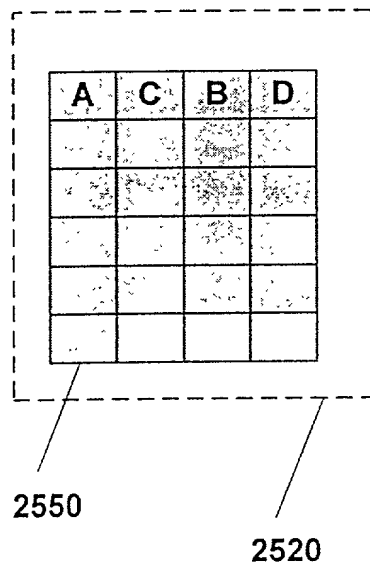
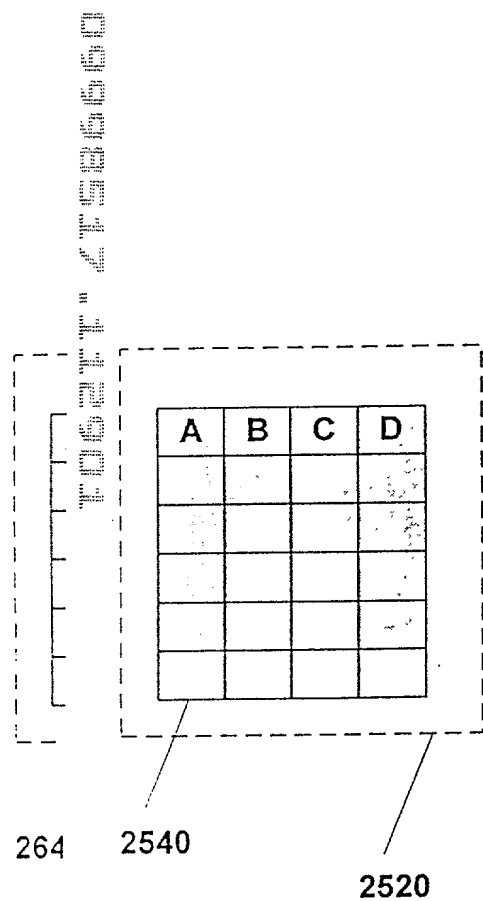
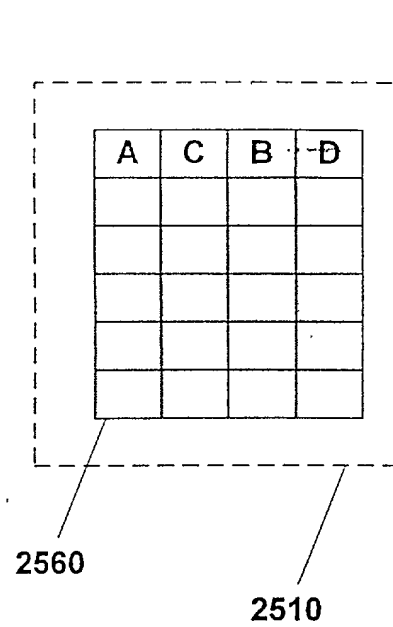
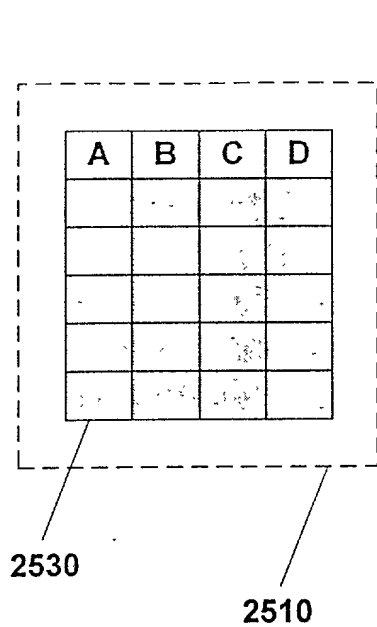
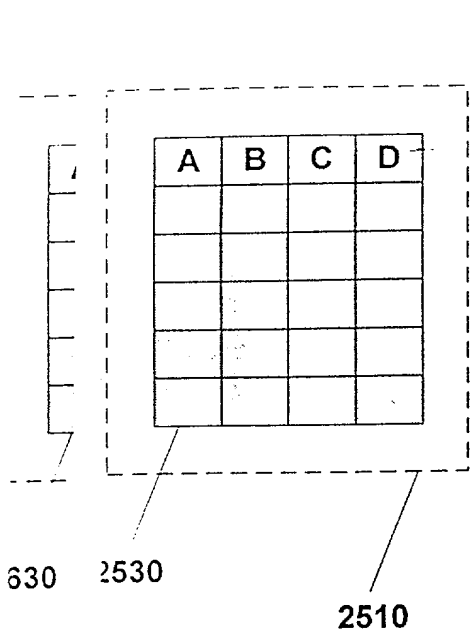


FIG. 25A

FIG. 25B

FIG. 25C



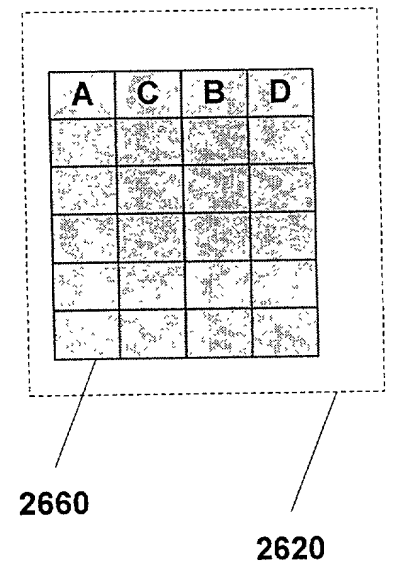
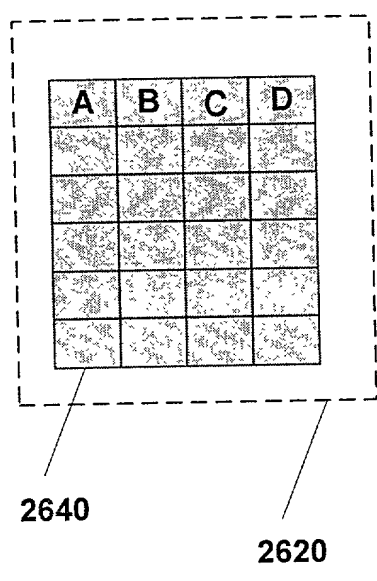
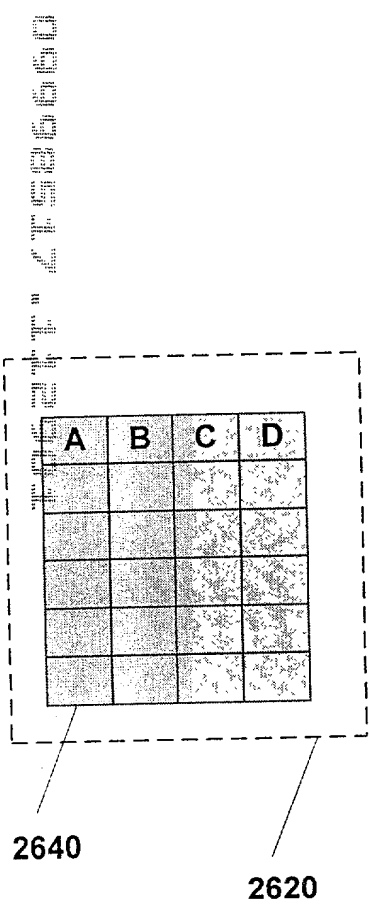
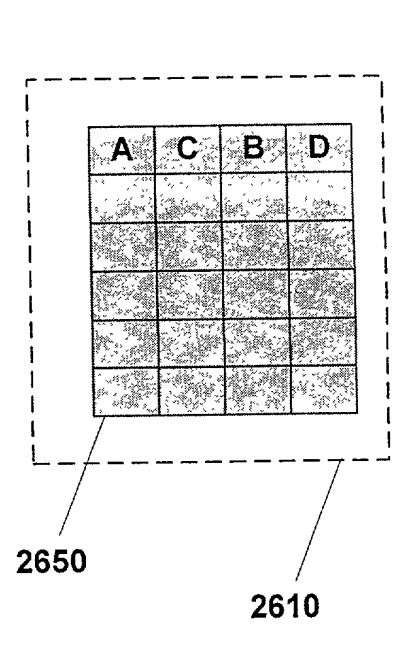
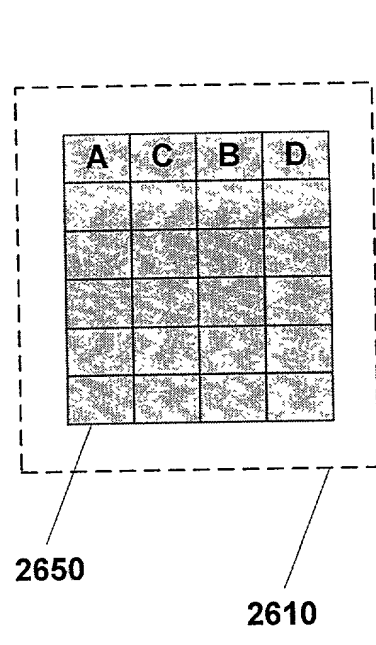
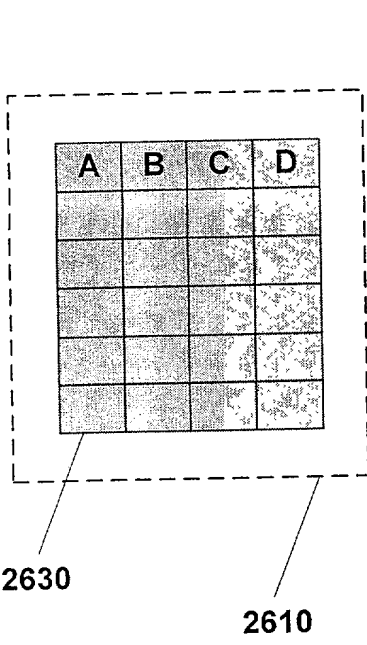


FIG. 26A

FIG. 26B

FIG. 26C

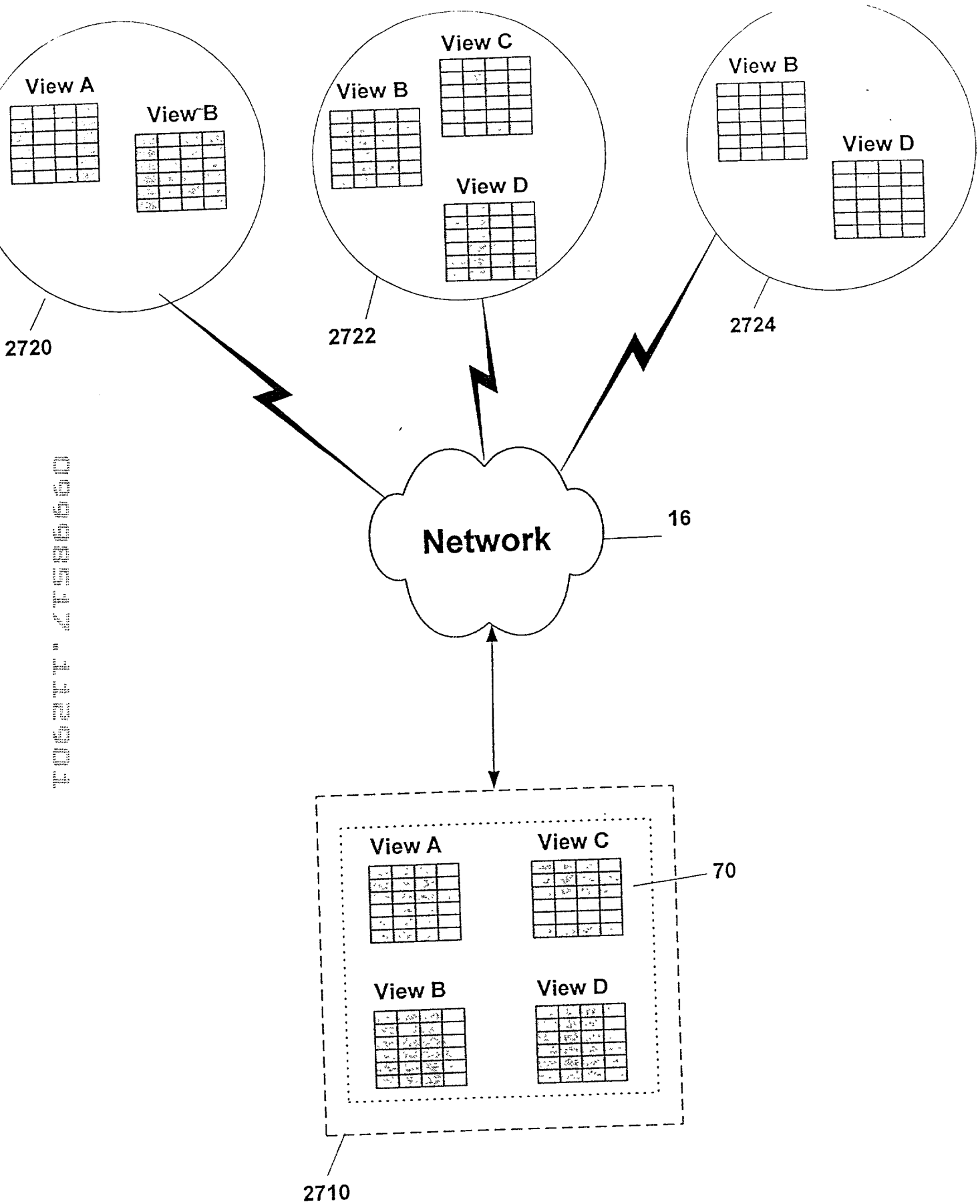


FIG. 27

FIG. 28

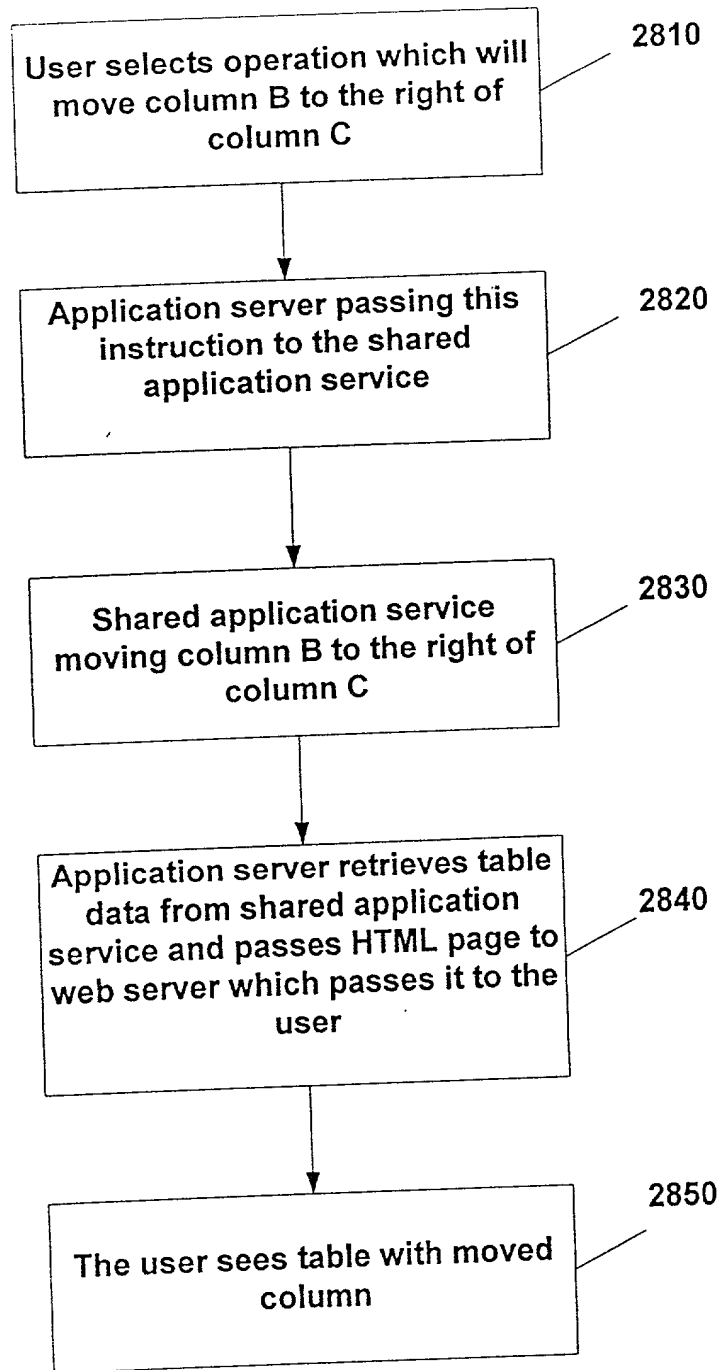
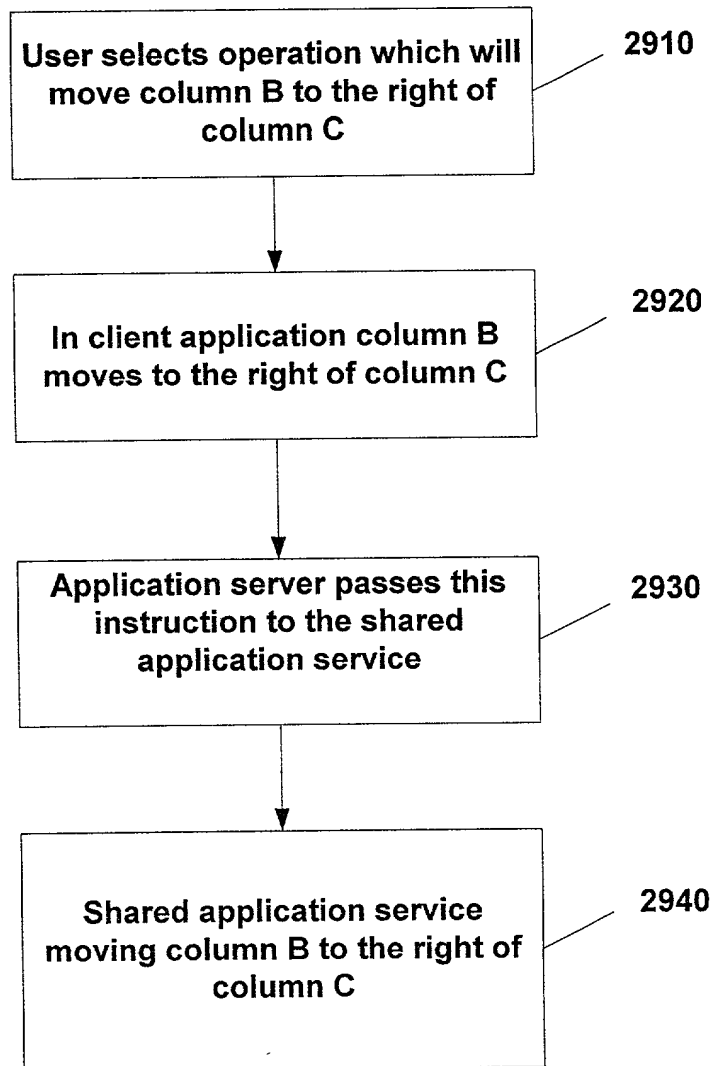
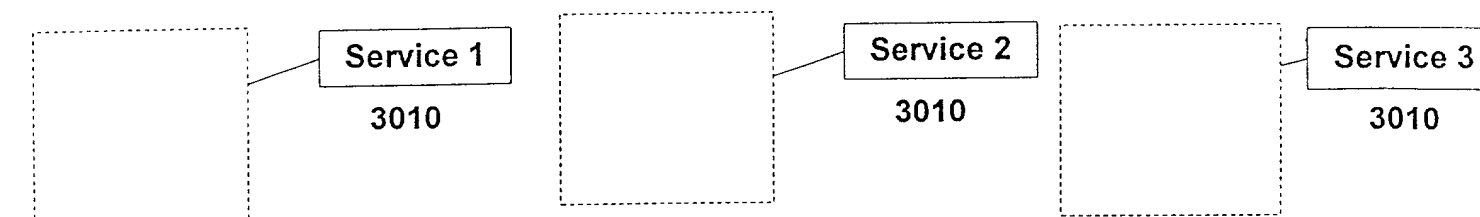


FIG. 28

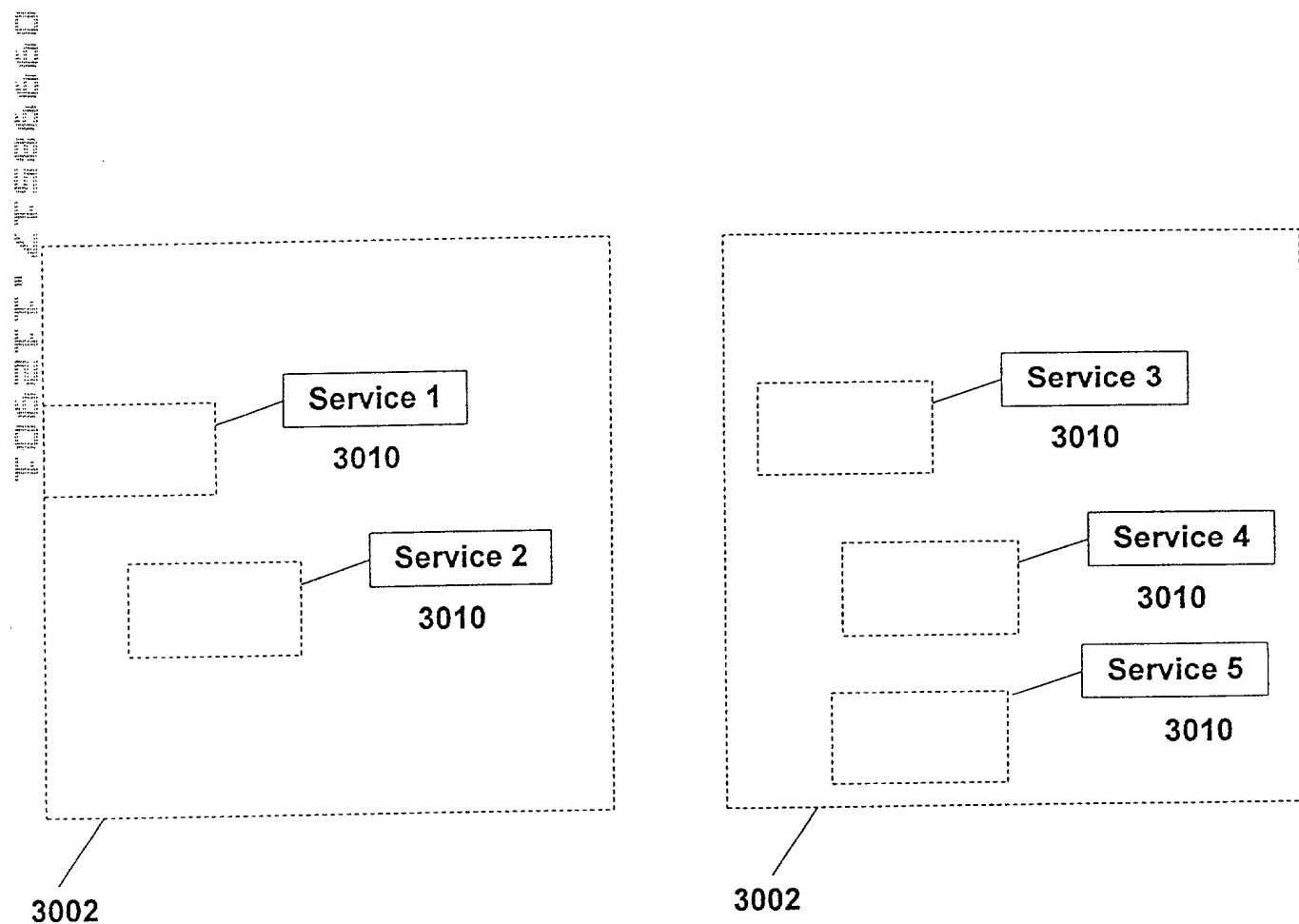


**FIG. 29**



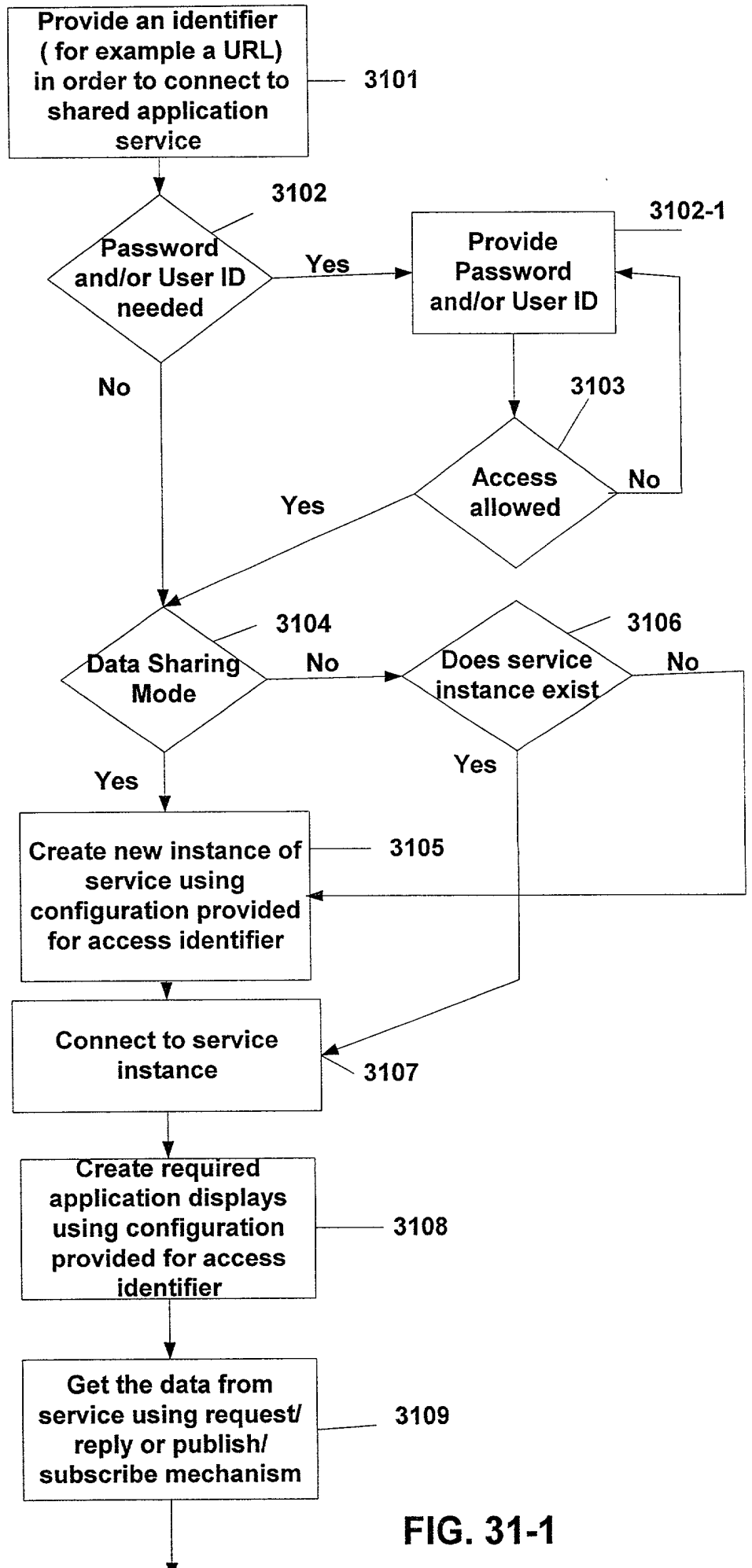
**Standalone application service**

**FIG. 30A**



**Multi-service applications**

**FIG. 30B**



Continued on  
FIG 31-2

FIG. 31-1

Continued from  
FIG 31-1

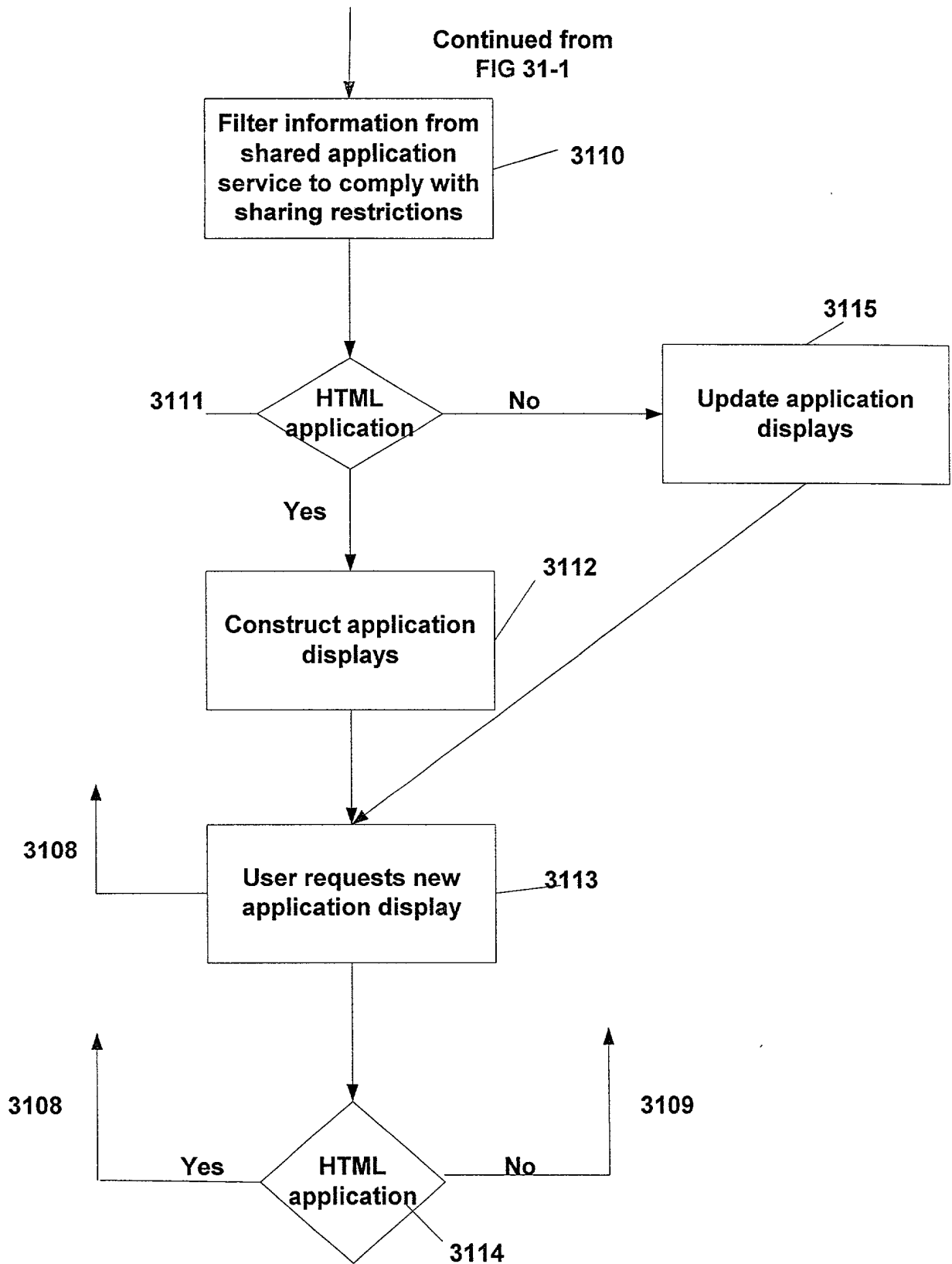
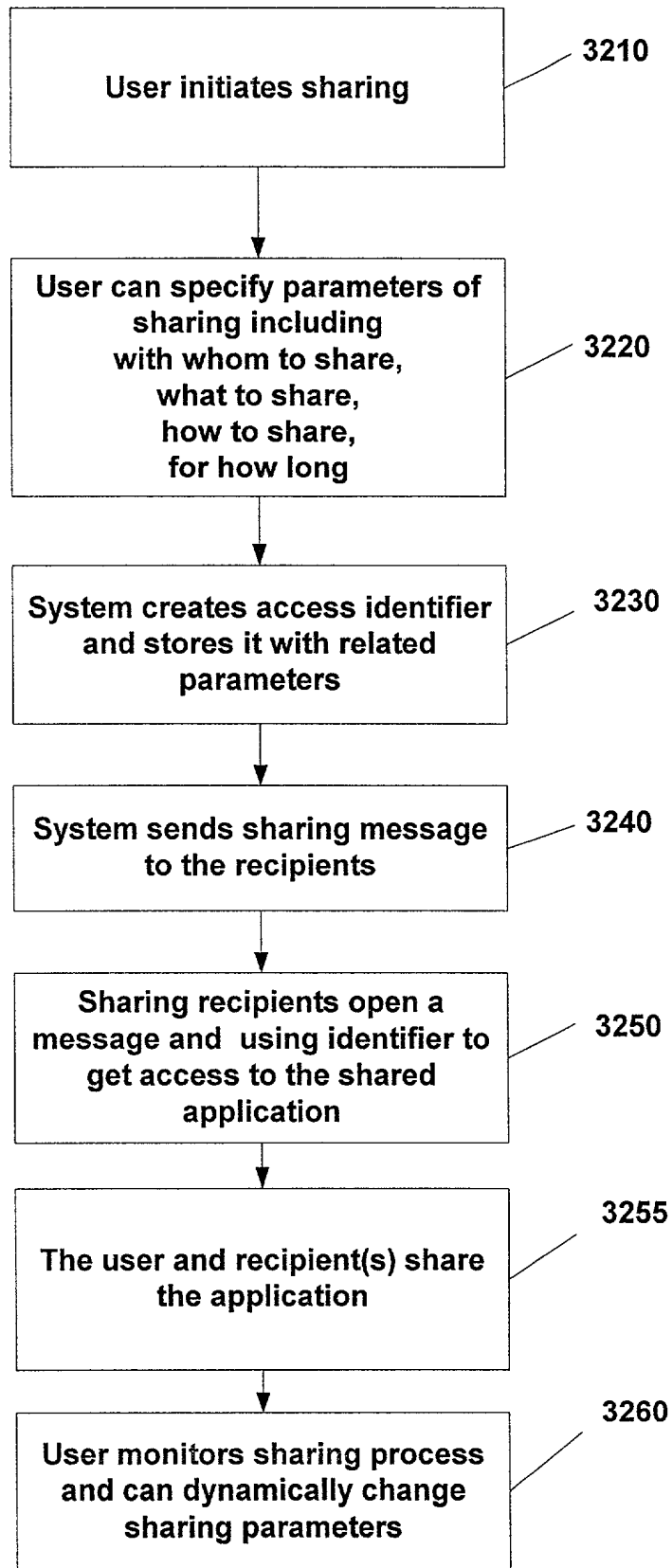


FIG. 31-2



**FIG. 32**



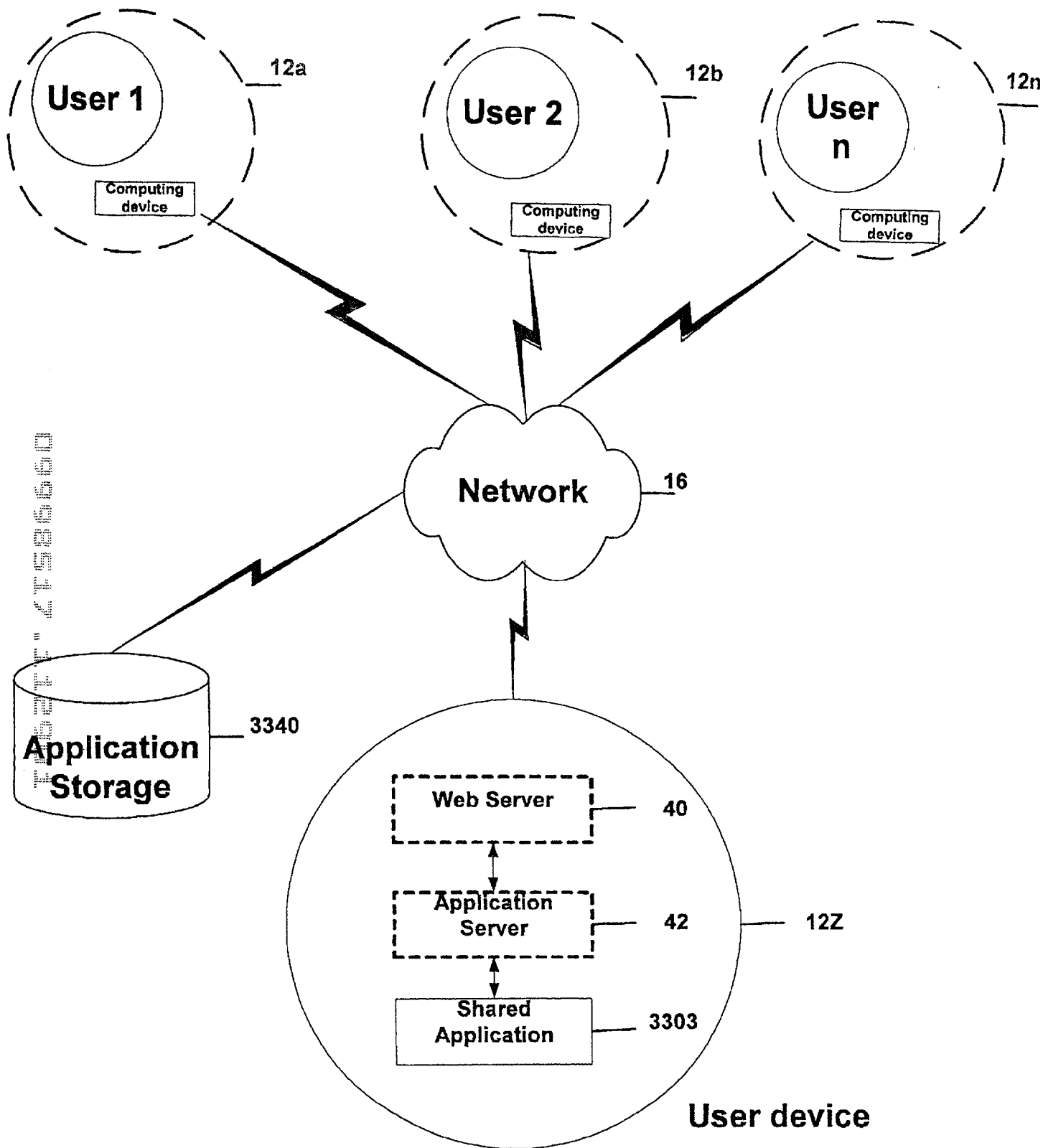
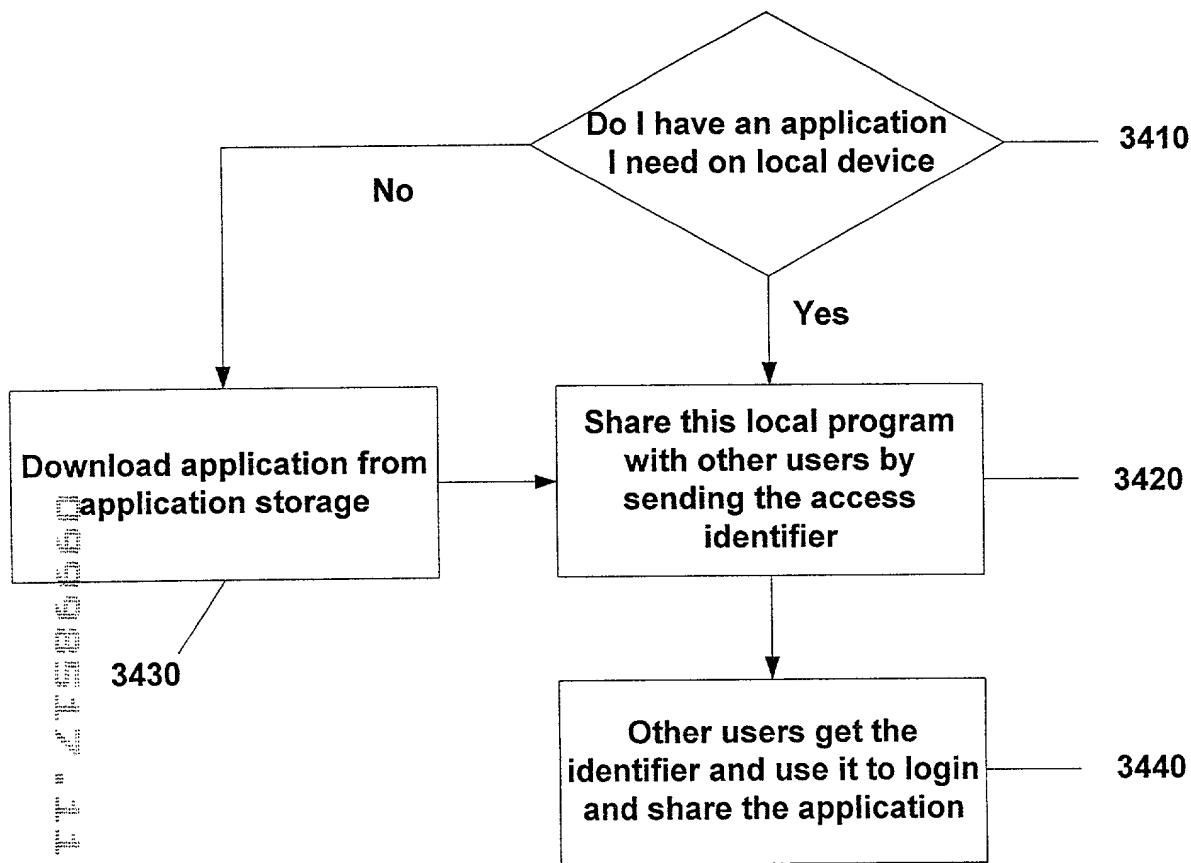
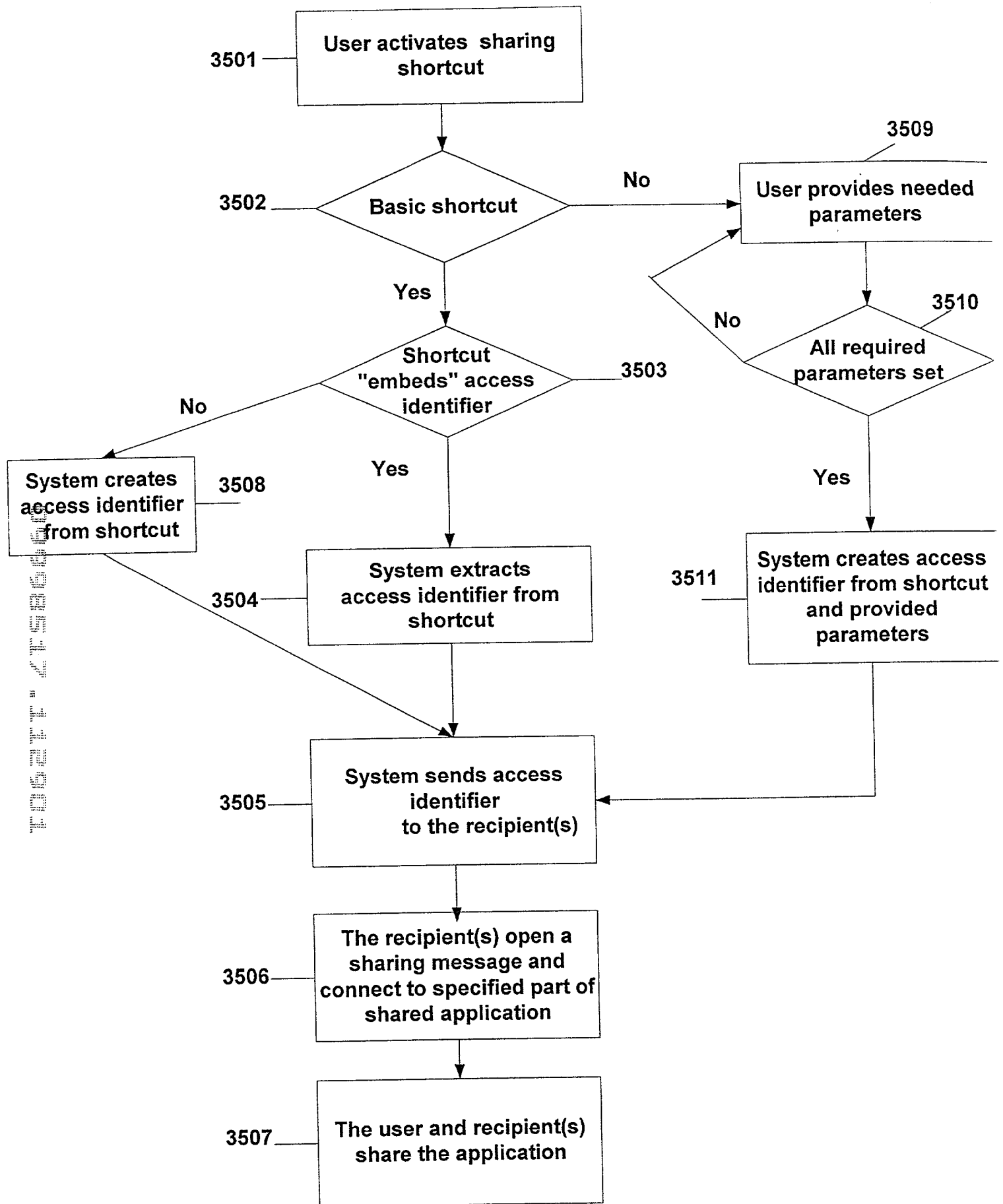


FIG. 33



**FIG. 34**



**FIG. 35**

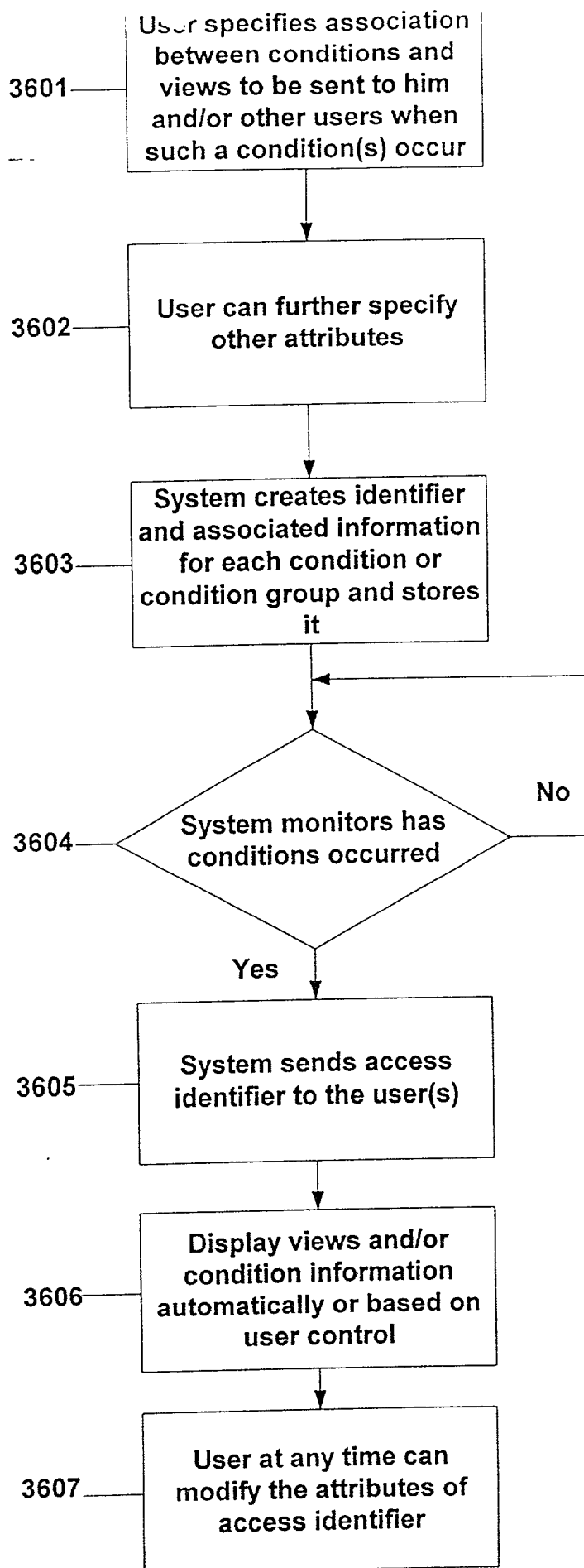


FIG. 36

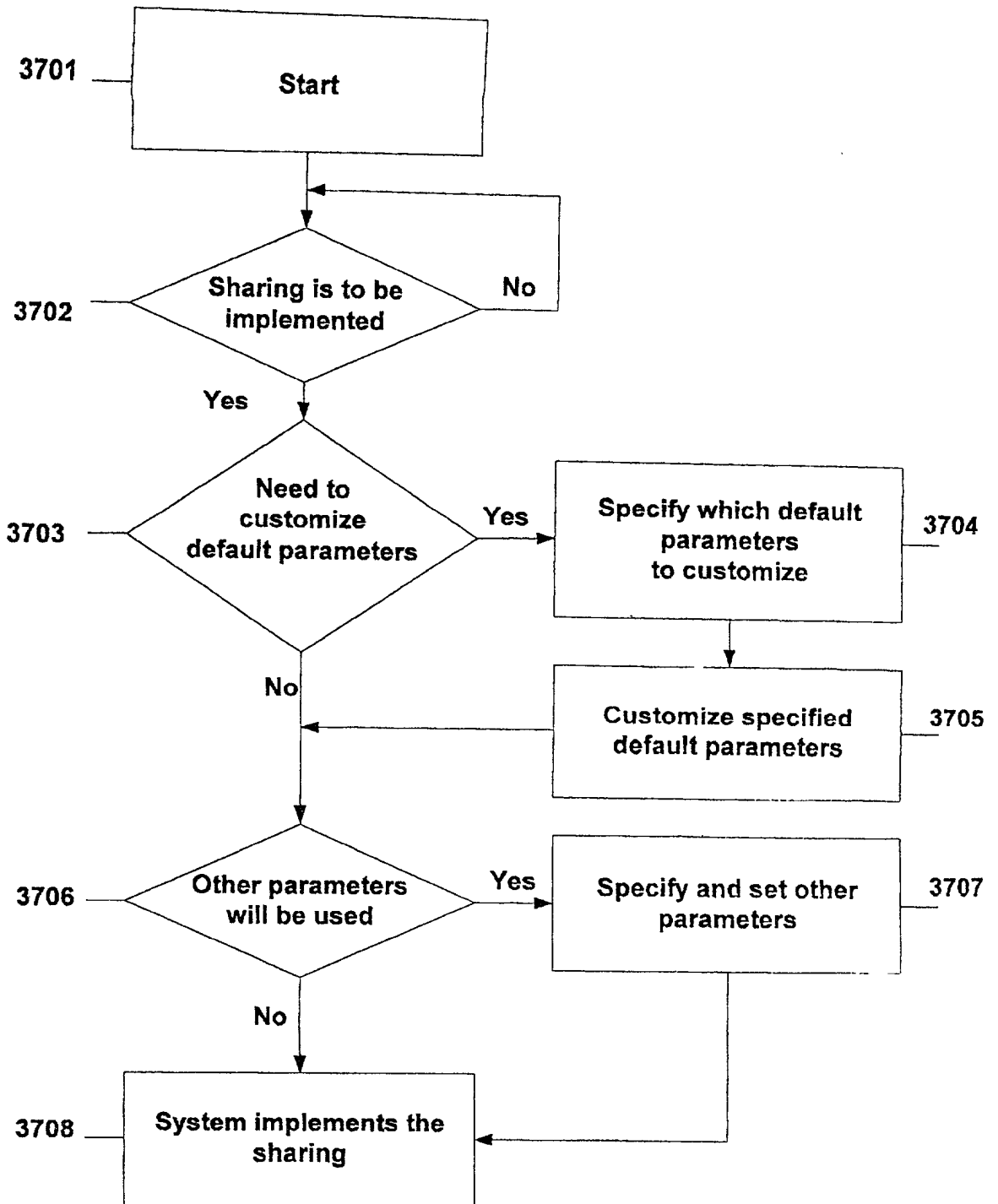
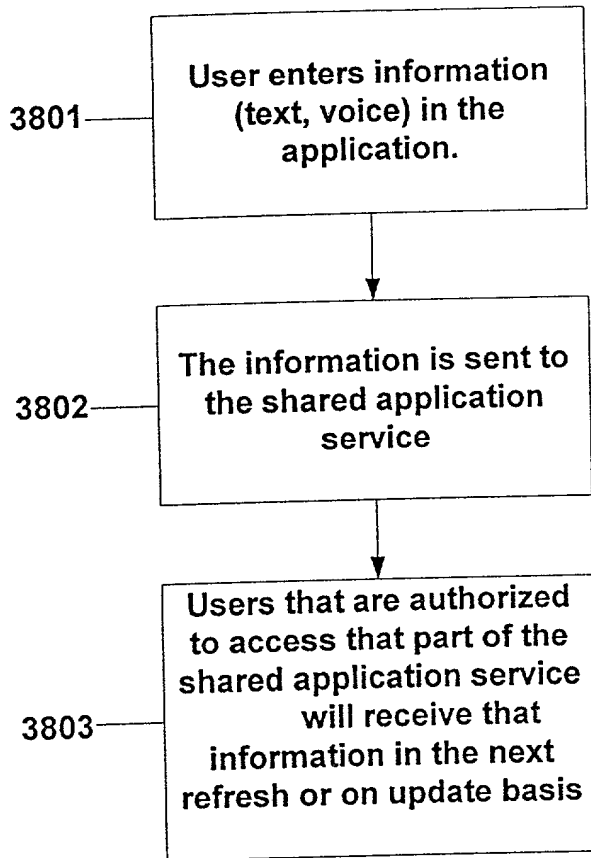
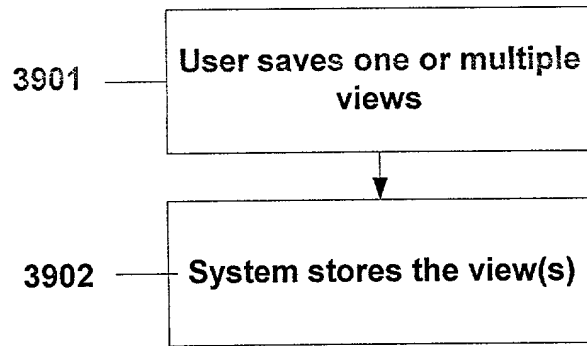


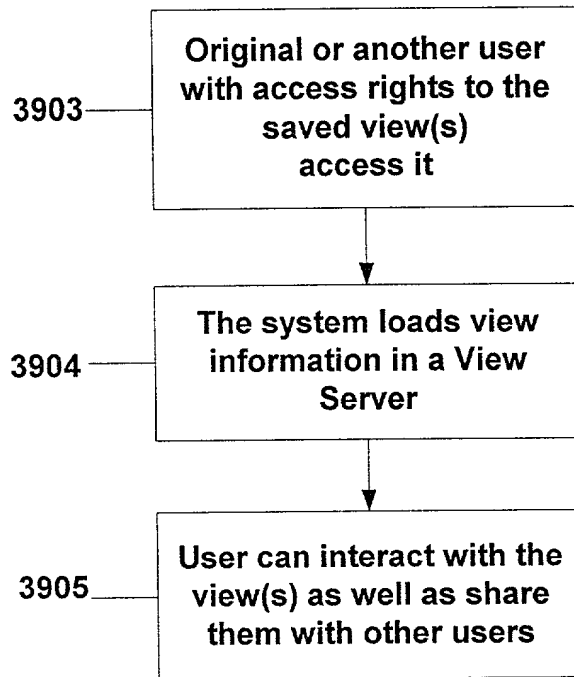
FIG. 37



**FIG. 38**



**FIG. 39A**



**FIG. 39B**

4001

{ A	{ B	{ C	{ D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
Text5	800	700	250
Text6	850	900	600
Text7	800	400	200
TOTAL	5850	3100	1950

4010

FIG. 40A

4002

4003

4003A

{ B	{ C	{ D
500	100	200
700	500	100
800	1100	450
850	900	600
1100	500	600
TOTAL	3100	1950

4020

4006

FIG. 40B

{ B	{ C avg	{ D
500	100	200
700	500	100
800	550	450
850	900	600
1100	250	600
TOTAL	3100	1950

4030

FIG. 40C



{ A	{ B	{ C	{ D
Text1	1100	200	150
Text3	1100	300	450
TOTAL	2200	500	600

FIG. 40D

4040

{ D	{ B	{ C
100	700	500
150	1100	200
200	1300	500
250	800	700
450	1100	300
600	850	900
TOTAL	5850	3100

FIG. 40E

4050

FIG. 41A

4101

	{	{	{	{
A	B	C	D	
Text1	1100	200	150	
Text2	500	100	200	
Text3	1100	300	450	
Text4	700	500	100	
Text5	800	700	250	
Text6	850	900	600	
Text7	800	400	200	
TOTAL	5850	3100	1950	4110

FIG. 41A

4102

{	{	{	
B	C	D	
500-750	600	300	
750-1000	2000	1050	
1000-1250	500	600	
TOTAL	3100	1950	4120

4003

FIG. 41B

{	{	{	
B	C avg	D	
500-750	300	300	
750-1000	666.67	1050	
1000-1250	250	600	
TOTAL	3100	1950	4130

FIG. 41C

4201

*	*	*	*
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
Text5	800	700	250
Text6	850	900	600
Text7	800	400	200
<b>TOTAL</b>	<b>5850</b>	<b>3100</b>	<b>1950</b>

4210

FIG. 42A

4202

*	*	*	*
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text2	500	100	200
Text4	700	500	100
Text5	800	700	250
Text6	850	900	600
Text7	800	400	200
<b>TOTAL</b>	<b>3650</b>	<b>2600</b>	<b>1350</b>

4220

FIG. 42B

4203

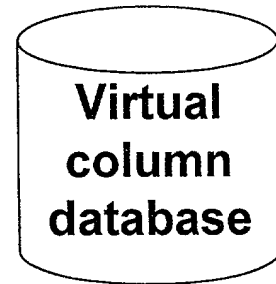
*	*	*	*
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Text2	500	100	200
Text4	700	500	100
Text5	800	700	250
Text7	800	400	200
<b>TOTAL</b>	<b>2800</b>	<b>1700</b>	<b>750</b>

4230

FIG. 42C

A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
TOTAL	2700	600	800

4310



4315

FIG. 43A

A	B	C	D	M
Text1	1100	200	150	125
Text2	500	100	200	175
Text3	1100	300	450	100
TOTAL	2700	600	800	400

4320

FIG. 43B

A	B	C	D	M
Text1	1100	200	150	125
Text2	500	100	200	175
Text3	1100	300	450	100
TOTAL	2700	600	800	400

4332

4330

FIG. 43C

A	B	D	M
Text1	1100	150	125
Text2	500	200	175
Text3	1100	450	100
TOTAL	2700	800	400

4340

FIG. 43D

A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
TOTAL	2700	600	800

4350

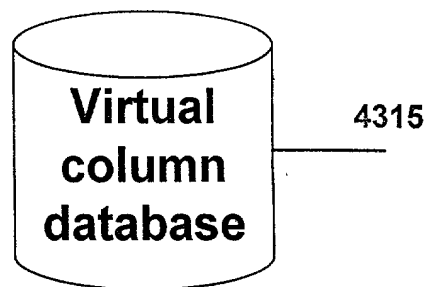


FIG. 43E

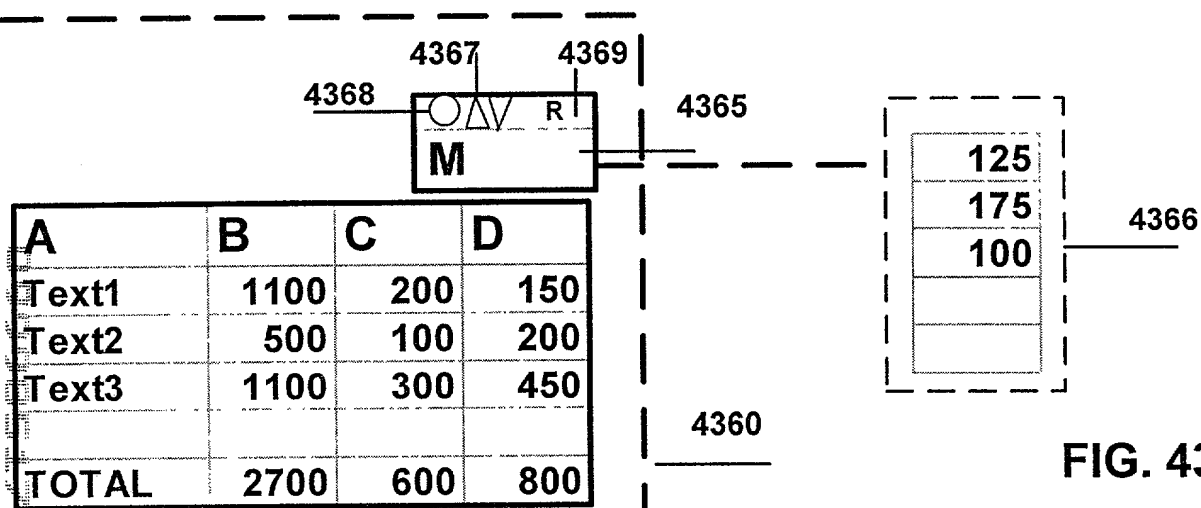


FIG. 43F

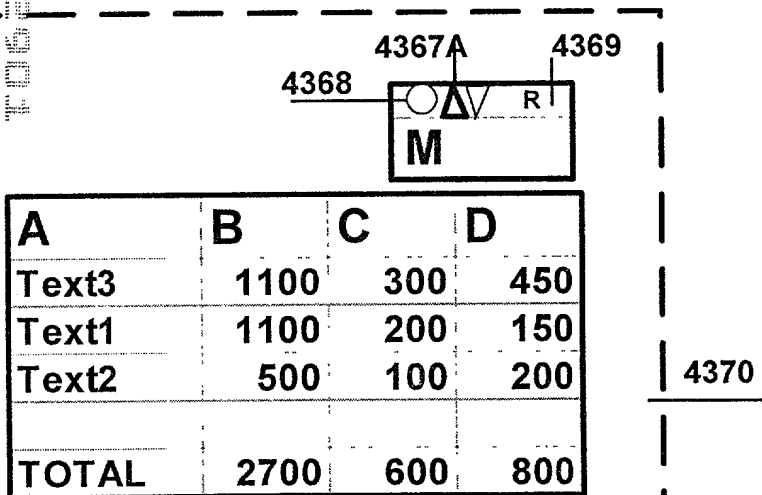
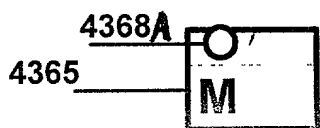


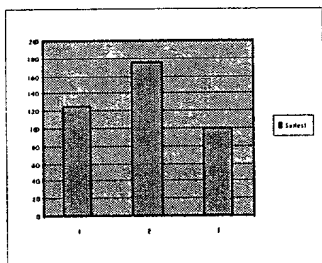
FIG. 43G



A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
TOTAL	2700	600	800

4380

FIG. 43H

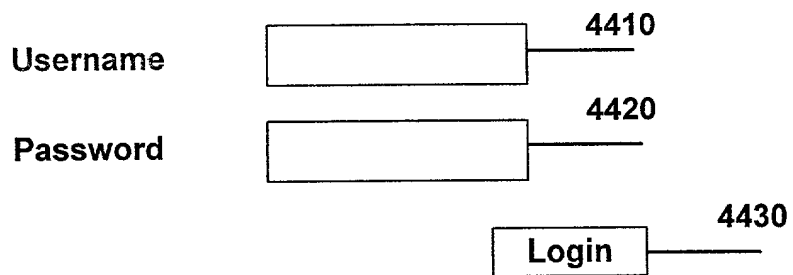


4385

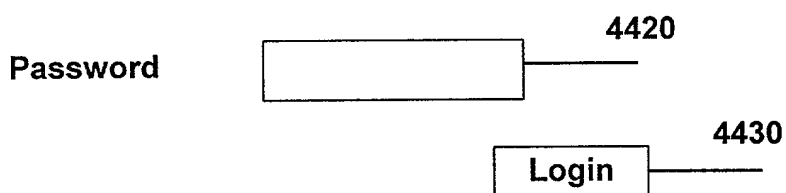
A	B	C	D	M
Text1	1100	200	150	125
Text2	500	100	200	175
Text3	1100	300	450	100
TOTAL	2700	600	800	400

4390

FIG. 43J



**FIG. 44A**



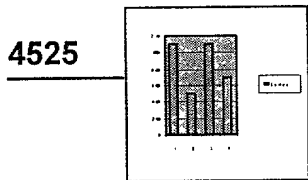
**FIG. 44B**

4501			
O	O	O	O
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
4510			
TOTAL	3400	1100	900

FIG. 45A

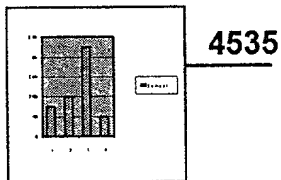
4502			
4503			
O	O	O	O
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
4510			
TOTAL	3400	1100	900

FIG. 45B



4501			
4504			
O	O	O	O
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
4510			
TOTAL	3400	1100	900

FIG. 45C

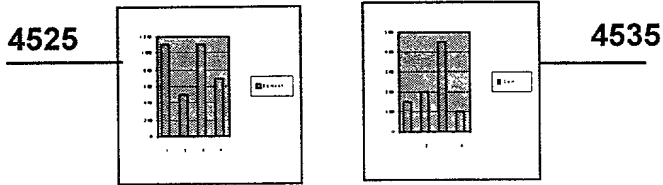




4502		4504	
o	O	o	O
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
TOTAL	3400	1100	900

4510

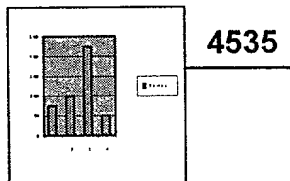
FIG. 45D



4501		4504	
o	O	o	O
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
TOTAL	3400	1100	900

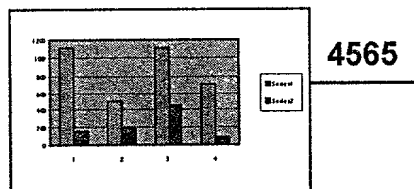
4510

FIG. 45E



4504			
o	O	o	O
A	B	C	D
Text1	1100	200	150
Text2	500	100	200
Text3	1100	300	450
Text4	700	500	100
4510			
TOTAL	3400	1100	900

FIG. 45F



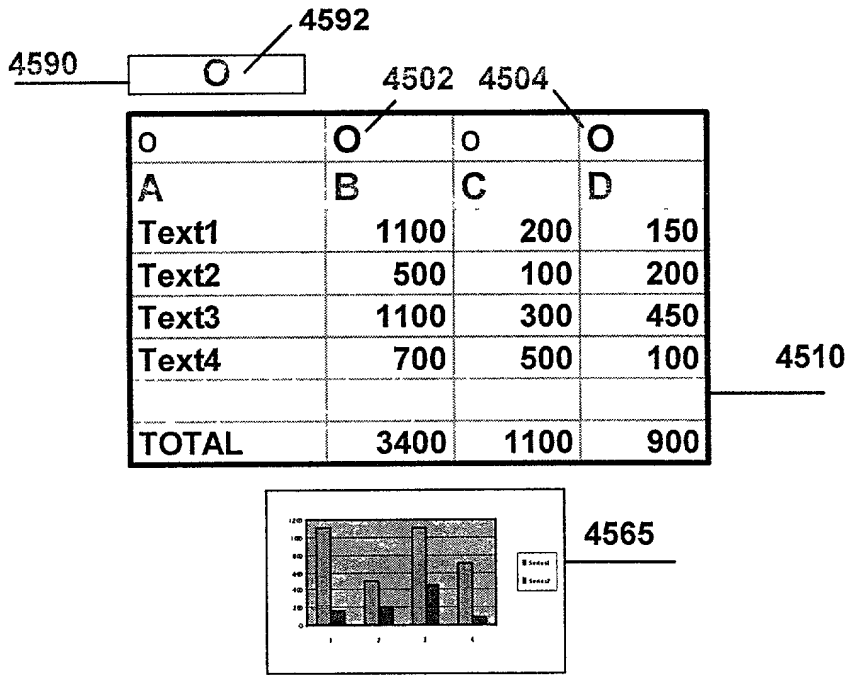


FIG. 45G

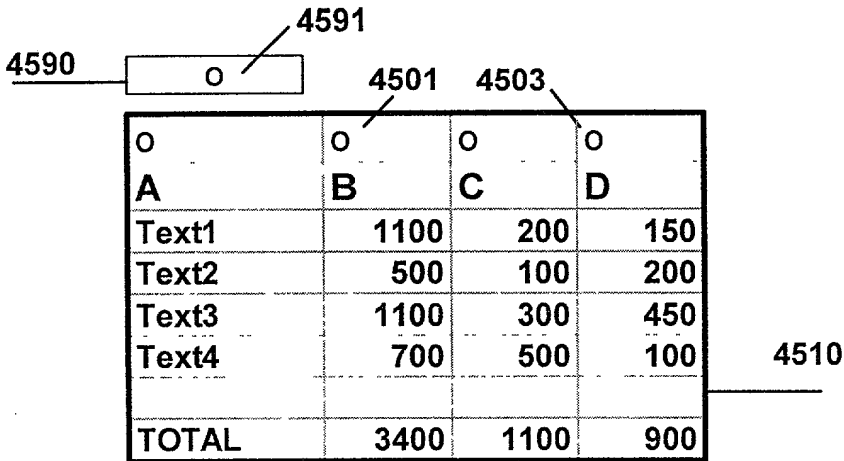


FIG. 45H

4602		4603	
Δ	▽	Δ	▽
Δ	▽	Δ	▽
A	B	C	
Text1	2/15/99	1000	
Text2	3/12/99	3500	
Text1	3/12/99	1800	
Text1	2/15/99	1500	
Text1	5/20/99	500	
Text2	3/12/99	2000	
Text1	2/15/99	1000	
Text2	3/12/99	3500	
Text2	6/8/99	1000	
Text2	4/10/99	2000	

FIG. 46A

4602A		4604	
Δ	▽	Δ	▽
Δ	▽	Δ	▽
A	B	C	
Text1	2/15/99	1000	
Text1	3/12/99	1800	
Text1	2/15/99	1500	
Text1	5/20/99	500	
Text1	2/15/99	1000	
Text2	3/12/99	3500	
Text2	3/12/99	2000	
Text2	3/12/99	3500	
Text2	6/8/99	1000	
Text2	4/10/99	2000	

FIG. 46B

4602A		4604A	
Δ	▽	Δ	▽
Δ	▽	Δ	▽
A	B	C	
Text1	2/15/99	1000	
Text1	2/15/99	1500	
Text1	2/15/99	1000	
Text1	3/12/99	1800	
Text1	5/20/99	500	
Text2	3/12/99	3500	
Text2	3/12/99	2000	
Text2	3/12/99	3500	
Text2	4/10/99	2000	
Text2	6/8/99	1000	

FIG. 46C

4602A 4604A 4606A		
Δ ▽	Δ ▽	Δ ▽
A	B	C
Text1	2/15/99	1000
Text1	2/15/99	1000
Text1	2/15/99	1500
Text1	3/12/99	1800
Text1	5/20/99	500
Text2	3/12/99	2000
Text2	3/12/99	3500
Text2	3/12/99	3500
Text2	4/10/99	2000
Text2	6/8/99	1000

4640

FIG. 46D

4602A 4604A 4606A 4608			
Δ ▽	Δ ▽	Δ ▽	
B	A	C	
2/15/99	Text1	1000	
2/15/99	Text1	1000	
2/15/99	Text1	1500	
3/12/99	Text1	1800	
3/12/99	Text2	2000	
3/12/99	Text2	3500	
3/12/99	Text2	3500	
4/10/99	Text2	2000	
5/20/99	Text1	500	
6/8/99	Text2	1000	

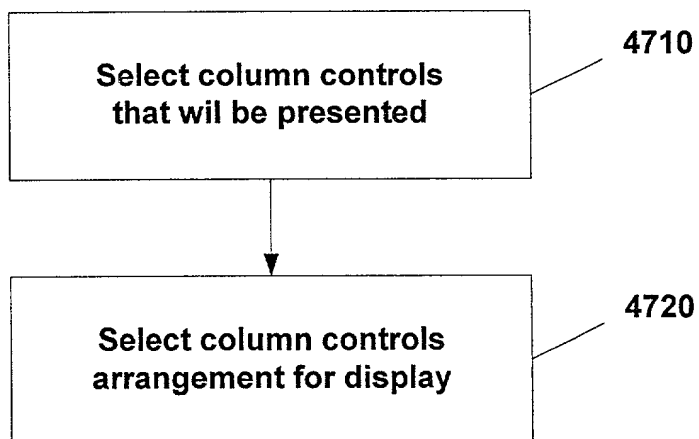
4650

FIG. 46E

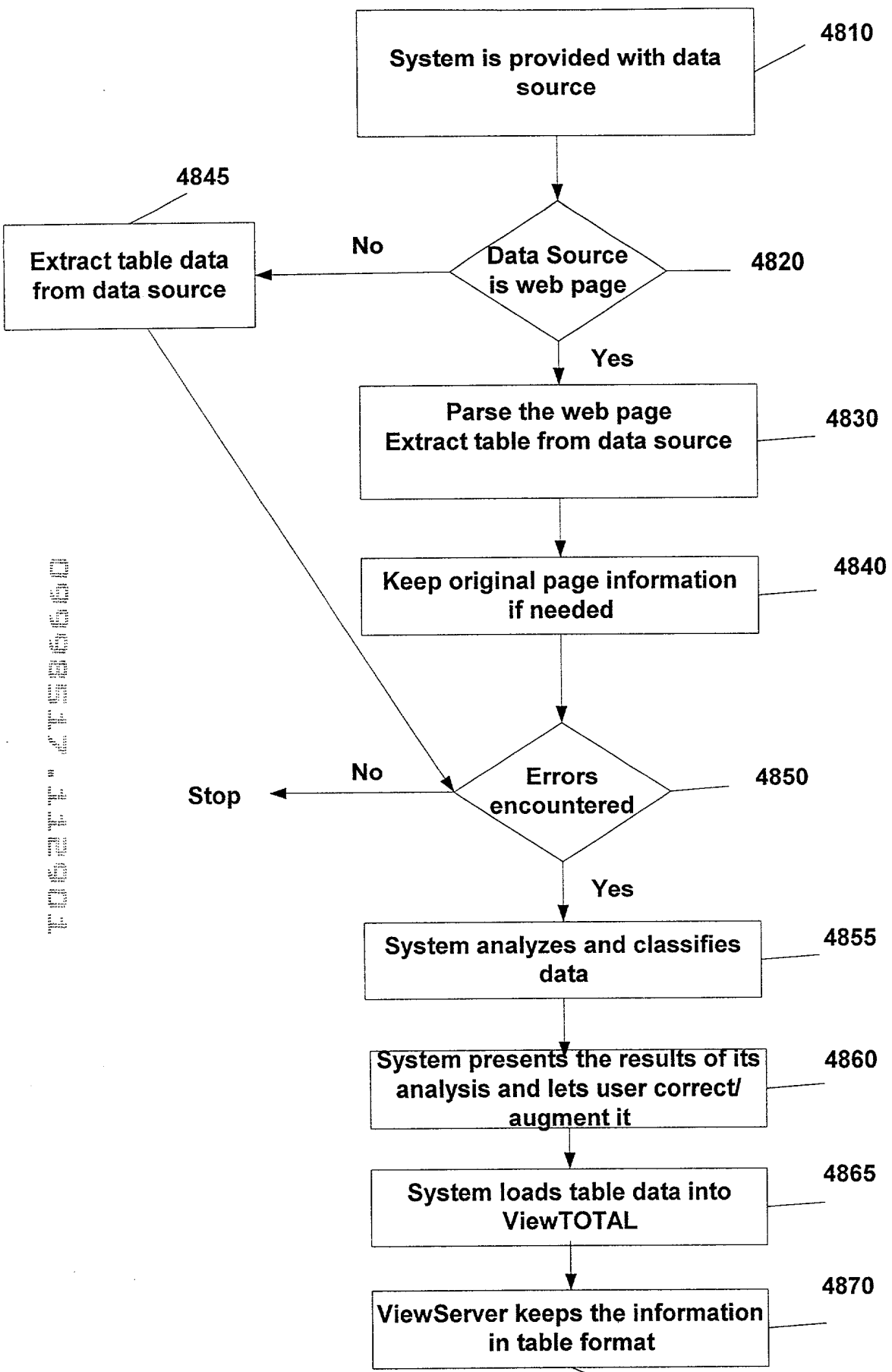
4602A 4604A 4606 4608A			
Δ ▽	Δ ▽	Δ ▽	
B	A	C	
2/15/99	Text1	1500	
2/15/99	Text1	1000	
2/15/99	Text1	1000	
3/12/99	Text1	1800	
3/12/99	Text2	3500	
3/12/99	Text2	3500	
3/12/99	Text2	2000	
4/10/99	Text2	2000	
5/20/99	Text1	500	
6/8/99	Text2	1000	

4660

FIG. 46F



**FIG. 47**



**FIG. 48-1**

Continued on  
FIG. 48-2

Continued from  
FIG. 48-1

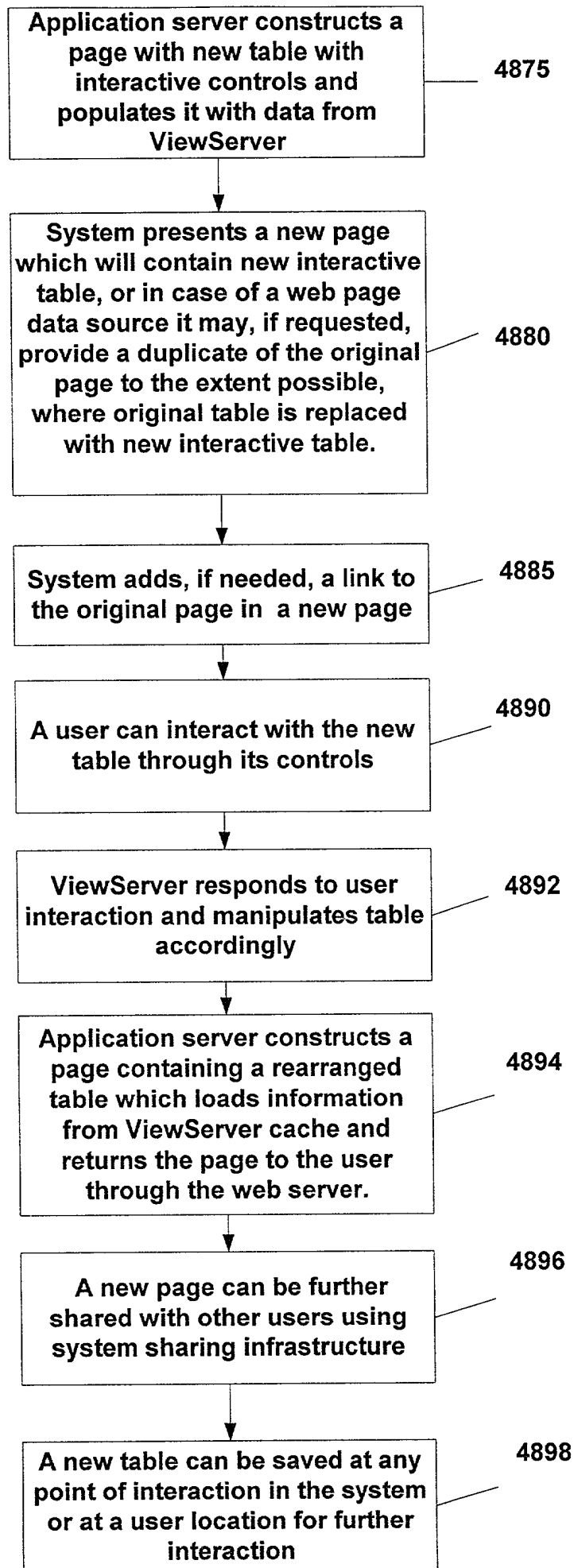
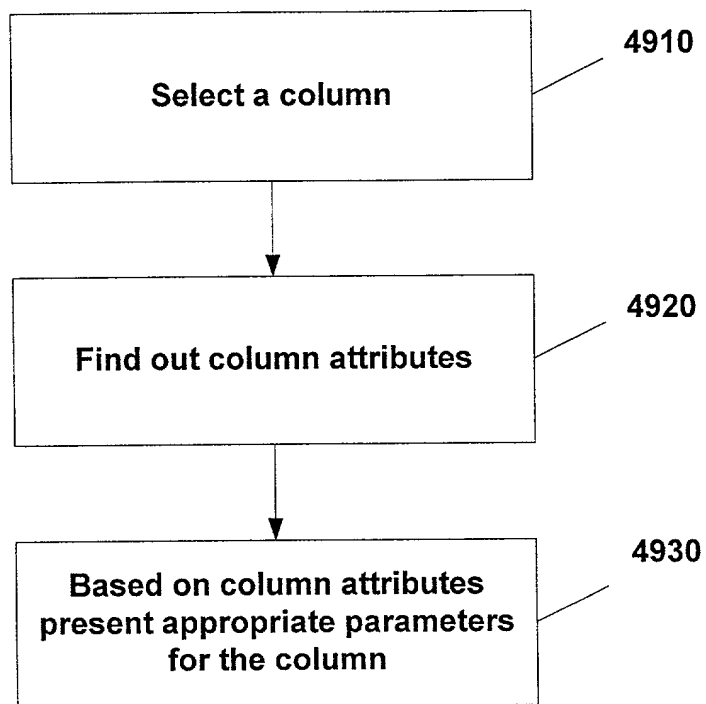


FIG. 48-2



**FIG. 49**



FIG. 50

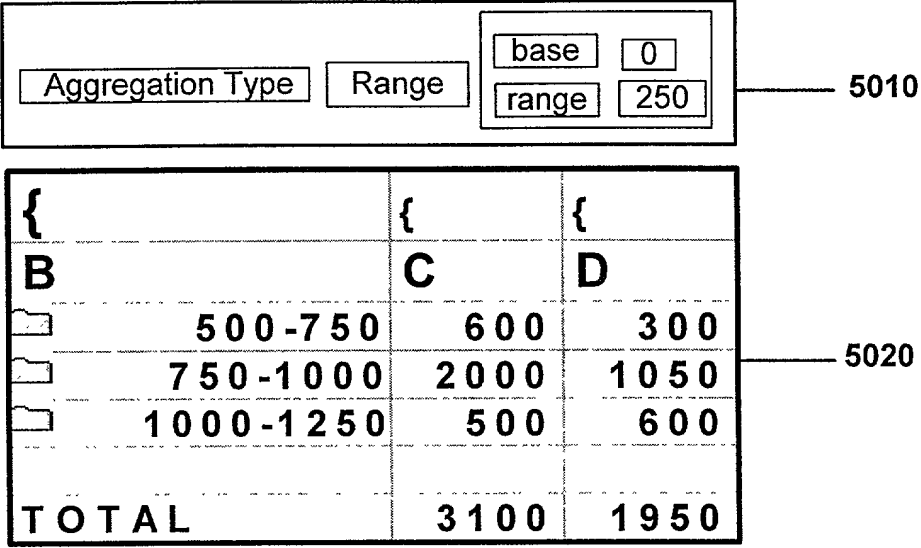


FIG. 50

FIG. 51A

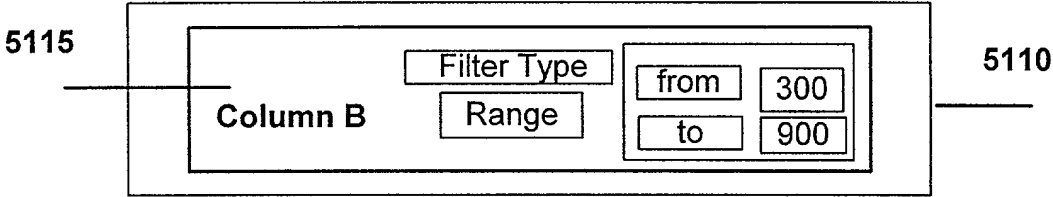


FIG. 51A

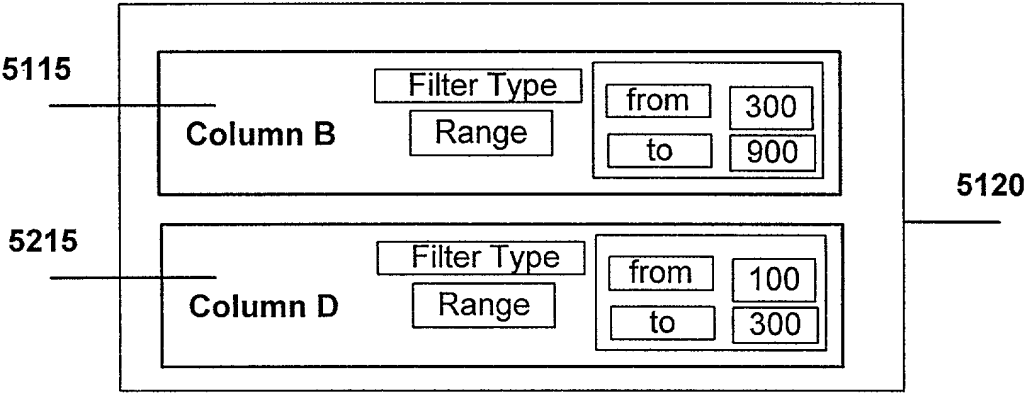
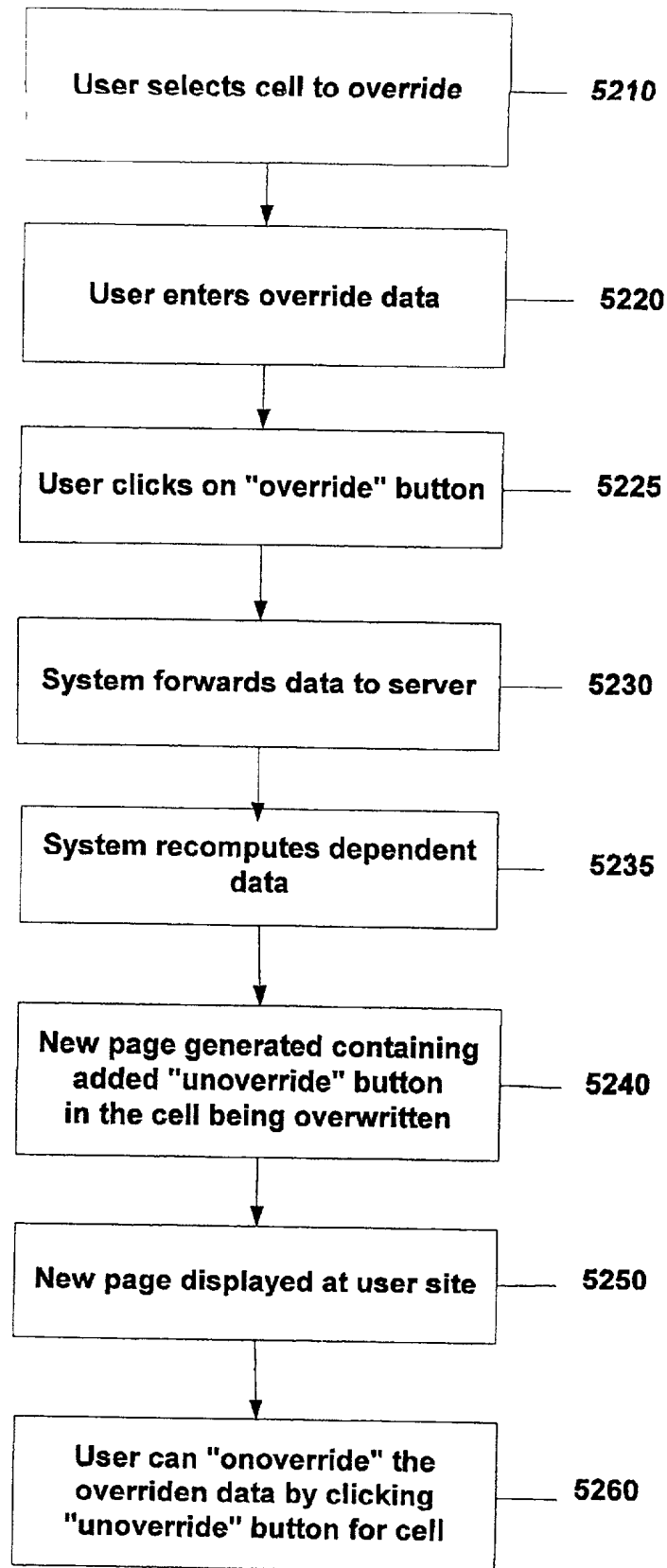


FIG. 51B



**FIG. 52**